# New Jersey Demographic Multipliers:

# The Profile of the Occupants of Residential and Nonresidential Development

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## **DEFINITIONS**

(Definitions are from the US Census Bureau, File: Census 2000, Public Use Microdata Sample, 2003.)

Terms	Definition/Comment
Bedrooms (BR)	The number of rooms that would be listed as bedrooms if the house [or] apartmentwere listed on the market for sale or rent even if these rooms are currently used for other purposes.
Central New Jersey	Includes Hunterdon, Mercer, Middlesex, Monmouth, Ocean and Somerset counties.
Demographic Multipliers	Include both residential and nonresidential multipliers.
Housing Categories (Structure Type)	Single-family, detached. This is a 1-unit structure detached from any other house; that is, with open space on all four sides. Such structures are considered detached if they have an adjoining shed or garage.
	Single- family attached. This is a 1-unit structure that has one or more walls extending from ground to roof separating it from adjoining structures. In row houses (sometimes called townhouses), double houses, or houses attached to nonresidential structures, each house is a separate, attached structure if the dividing or common wall goes from ground to roof.
	2-4 units. These are units in structures containing 2, 3, or 4 housing units.
	5+ units. These are units in structures containing 5 or more housing units.
Housing Location	In this study, the residential multipliers are shown for three regions in New Jersey: Northern New Jersey, Central New Jersey, and Southern New Jersey.
Housing Rent (Contract Rent)	Contract rent is the monthly rent agreed to or contracted for, regardless of any furnishings, utilities, fees, meals, or services that may be included.
Housing Rent (Gross Rent)	Gross rent is the <i>contract rent</i> plus the estimated average monthly cost of utilities (electric, gas, water and sewer) and fuels (oil, coal, kerosene, wood, and the like) if these are paid by the renter (or paid for the renter by someone else). In the current study, the monthly gross rents (converted to housing unit value; see <i>Housing Value</i> ) are indicated in the demographic table.
Household Size	The total number of persons in a <i>housing unit</i> .
Housing Tenure (Ownership or Rental)	A <i>housing unit</i> is occupied if the owner or co-owner lives in the unit even if it is mortgaged or not fully paid for. All occupied housing units that are not owner-occupied, whether they are rented for cash rent or occupied without payment of cash rent, are classified as renter-occupied.
Housing Unit	A <i>housing unit</i> may be a house, an apartment a group of rooms, or a single room that is occupied (or if vacant, is intended for occupancy as separate living quarters).
Housing Value (Rent)	Housing value is the census respondent's estimate of how much the property would sell for if it were for sale. In the current study, the value of a rented unit in a 1- to 4-unit structure is estimated to be 100 times the monthly <i>gross rent</i> . The housing value and rents indicated by the 2000 census were updated to 2005 using a residential price inflation index available from the Federal Housing Finance Board for New Jersey. Housing value is categorized into tri-partite classification: <i>housing priced below the median, housing priced above the median, and all value housing</i> . The above housing price terms are just as they are stated. Housing priced below the median should <i>not</i> be confused with affordable or <i>Mount Laurel</i> housing as it is sometimes referred to in New Jersey. Housing priced above the median is <i>not</i> synonymous with what is sometimes referred to as market-rate housing (to contrast the market-rate from the affordable or " <i>Mount Laurel</i> " categories).
Median Housing Value	The median divides the value distribution into two equal parts: one-half of the cases falling below the median value of the propertyand one-half above the median.
Nonresidential Multipliers	These multipliers indicate the number of workers in different types of nonresidential development.
Northern New Jersey	Includes Bergen, Essex, Hudson, Morris, Passaic, Sussex, and Union Counties.
Public School Children (PSC)	The school-age children attending public school.
Residential Multipliers	These multipliers show the population associated with different <i>housing categories</i> as well as housing differentiated by <i>housing value</i> , housing size ( <i>bedrooms</i> ), and <i>housing tenure</i> .
School-Age Children (SAC) Southern New Jersey	The household members of elementary and secondary school age, defined here as those 5 through 17 years of age. Includes Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, and Salem counties.
Housing Rent (Contract Rent) Housing Rent (Gross Rent)  Household Size Housing Tenure (Ownership or Rental)  Housing Unit Housing Value (Rent)  Median Housing Value  Nonresidential Multipliers Northern New Jersey Public School Children (PSC) Residential Multipliers	In this study, the residential multipliers are shown for three regions in New Jersey: Northern New Jersey, C New Jersey, and Southern New Jersey.  Contract rent is the monthly rent agreed to or contracted for, regardless of any furnishings, utilities, fees, meservices that may be included.  Gross rent is the contract rent plus the estimated average monthly cost of utilities (electric, gas, water and s and fuels (oil, coal, kerosene, wood, and the like) if these are paid by the renter (or paid for the renter by sor else). In the current study, the monthly gross rents (converted to housing unit value; see Housing Value indicated in the demographic table.  The total number of persons in a housing unit.  A housing unit is occupied if the owner or co-owner lives in the unit even if it is mortgaged or not fully paid for occupied housing units that are not owner-occupied, whether they are rented for cash rent or occupied we payment of cash rent, are classified as renter-occupied.  A housing unit may be a house, an apartment a group of rooms, or a single room that is occupied (or if vac intended for occupancy as separate living quarters).  Housing value is the census respondent's estimate of how much the property would sell for if it were for sale. current study, the value of a rented unit in a 1- to 4-unit structure is estimated to be 100 times the monthly rent. The housing value and rents indicated by the 2000 census were updated to 2005 using a residential inflation index available from the Federal Housing Finance Board for New Jersey. Housing a residential inflation index available from the Federal Housing Finance Board for New Jersey. Housing a residential inflation index available from the Federal Housing in the structure is estimated to be 100 times the monthly rent. The above housing price terms are just as they are stated. Housing priced above the median is not synonymous with what is sometimes referred to in New Jersey. Housing yalue is categority and the median is not synonymous with what its sometimes

#### **PREFACE**

In the 1970s and 1980s, researchers at Rutgers University published a series of national studies (hereinafter, the "Rutgers studies")<sup>1</sup> that contained information on demographic multipliers—the average number of people and the average number of school-age and public school children found in newly built housing units of different types and sizes. The Rutgers studies provided demographic information for the nation, and for each of the census regions (e.g., Northeast United States) and census subregions (e.g., Middle Atlantic States, which includes New Jersey).

The Rutgers studies were widely applied throughout the United States as well as in New Jersey. Inevitably, however, the Rutgers studies have become dated over time and do not reflect the demographic reality of a noticeable decline in the average household size and the average number of pupils per housing unit. For instance, the number of public school children in the average newly built New Jersey 2-bedroom townhouse dropped from 0.20 in 1980 to 0.13 in 2000, a decline of more than one-third. In other words, the introduction of 100 2-bedroom townhouses in New Jersey as of 2000 would generate only about 13 pubic school children as compared to 20 pupils two decades earlier. Additionally, there is evidence of a particularly low demographic generation for such recent development configurations as transit oriented development (TOD).

In short, the practice of using the existing published Rutgers studies produces an erroneous overstatement of the population generated by new development in New Jersey, especially in housing with a strong transit orientation and infrastructure in place.

To improve the state of our knowledge, the following publication by Rutgers University produces demographic information on household size and pupil generation that is: 1. *current*—(incorporates the latest demographic data from the 2000 census), 2. *New Jersey-specific*—(contains demographic data unique to this state alone and is field tested in New Jersey), and 3. *incorporates the experience of emerging development categories*, most notably TODs.

The document's data is invaluable for accurate demographic projections and development impact assessment. It is important, however, that the data not be abused to exclude certain categories of housing, such as homes with more bedrooms, or for that matter housing in general because of the apprehension that development will generate "too many" new residents and public school children. That exclusionary perspective does not acknowledge current data (the demographic multipliers have declined in size over time), subverts good planning (smart growth calls for a range of housing and a mix of land-uses), and violates the *Mount Laurel* principle of all communities in New Jersey having the obligation of meeting the spectrum of the state's housing needs.

<sup>&</sup>lt;sup>1</sup> Robert W. Burchell and David Listokin. *The Fiscal Impact Handbook* (New Brunswick, NJ: Center for Urban Policy Research. 1978); Robert W. Burchell, David Listokin, and William Dolphin, *The New Practitioner's Guide to Fiscal Impact Analysis* (New Brunswick, NJ: Center for Urban Policy Research. 1985); Robert W. Burchell and David Listokin. *Fiscal Impact Analysis* (Washington, DC: National Association of Home Builders, 1991); and Robert W. Burchell and David Listokin, *Development Impact Assessment Handbook and Model* (Washington, DC: Urban Land Institute, 1994).

#### **HOW TO USE THIS GUIDE**

As noted, New Jersey officials, developers, and planners are currently referring to demographic data that are at least 25 years hold out of date and that do not reflect current trends such as lower average household size, higher density land uses, and a return to transit oriented development. To address this situation, the current study provides contemporary demographic data for New Jersey that reflects modern population and development trends so that the public and private sectors can make a more accurate assessment of the demographic impacts of new residential development.

This study is *not* meant to provide the *exact* number of people or children that will move into a new residential development. Instead, it presents averages, based on an analysis of 2000 census numbers, of the numbers of people, school-age children, and public school children that tend to locate in different types of development, such as single-family, multi-family, above and below median value homes, and so on.

The steps to follow when analyzing a specific residential project include:

- 1. Determine the project's housing characteristics. Are single family detached homes, townhouses, or multi-family units being proposed? How many bedrooms does each residential unit have? Are units projected to be priced above or below median home value?
- 2. Go to the table in this study that reflects the above characteristics and look at the average numbers provided. Understand that these are *average* numbers, and that the actual number to be generated by the proposed project is more likely to fall within the statistical range around that average number.
- 3. To determine where in the range the proposed project is likely to fall, consider community characteristics, such as transit-oriented development, the quality of the school system, and the demographics of similar existing developments that may influence the demographic characteristics of the people who are likely to move into the development under study.
- 4. Exploratory data is provided in the current monograph on transit-oriented developments. (Exploratory demographic information is also presented for other specialized housing such as *Mount Laurel* homes) and age-restricted units. It is not provided for the other types of influences (e.g., quality of the local school system) mentioned above. Using transit-oriented (and other specialized housing) data, if relevant, and best available information on any other applicable features, estimate the number of people, school-age children, and public school children likely to move into the development.

In summary, the most valuable use of this study is to develop a *likely range* of the number of people, school age children, and public school children generated by specific types of new residential development in New Jersey. The study is meant to *start* the informed dialogue about planning impacts of new development, not end it.

To expand our knowledge of the impacts of growth, this study also provides exploratory information on the number of workers contained in different types of nonresidential development. The use of this information is similarly straightforward. Determine the type of nonresidential project that is proposed (e.g., office or retail) and then go to the appropriate table in the study that reports on the average number of workers found in different types of nonresidential space. As with the residential data, the nonresidential worker multipliers are *averages* that can help develop the *likely range* of employees generated by specific categories of nonresidential development—information that can inform the dialogue on the impacts of nonresidential growth.

#### **EXECUTIVE SUMMARY**

- How many people and school children are generated by new housing in New Jersey? How many workers are contained within different types of nonresidential development in the state? Government and citizens at large understandably are interested in these population figures because it affects the demand for public services and expenditures (e.g. for education and transportation), the market demand for nonresidential space, and other important subjects.
- To provide empirical information concerning who lives in New Jersey housing and how many workers are contained in different categories of nonresidential uses within the state, the current publication by Rutgers University contains data on *demographic multipliers*. There are *residential multipliers* that show the populations associated with different categories of housing and *nonresidential multipliers* that indicate the number of workers in different types of nonresidential development.
- From 2000 U.S. Census 5-percent Public Use Microdata Sample (PUMS) information on the profile of households in recently built (1990 to 2000) New Jersey housing, Rutgers calculates the New Jersey residential multipliers for:

Household Size (HS) -- the total number of persons in a housing unit School-Age Children (SAC) – the household members of elementary and secondary school (kindergarten through 12<sup>th</sup> grade) age.

Public School Children (PSC) – the SAC attending public school.

- The residential demographic multipliers for New Jersey vary by 1. housing type (e.g., single-family detached, single family attached [townhouse], or multifamily) 2. housing size (measured in bedrooms) 3. housing value (housing units priced above and below the median value as of 2006 for New Jersey)<sup>2</sup>, 4. housing tenure (ownership versus rental), and 5. region (northern, central, or southern New Jersey). These five variables have been found by Rutgers to be associated with statistically significant differences in the size of the demographic multipliers, albeit sometimes these differences are measurably modest.
- To illustrate the current residential demographic information, the statewide residential demographic multipliers of popular configurations of typical housing (in terms of dwelling type, size, tenure, and value) built in New Jersey from 1990 to 2000 are:

Table E-1
Illustrative New Jersey Statewide Residential Demographic Multipliers (2000)

Housing Type	Housing	Household	School-Age	Public School
	Size (bedrooms)	size (HS)	Children (SAC)	Children (PSC)
Single-family detached <sup>a</sup>	3 bedroom	2.98	0.58	0.48
	4 bedroom	3.77	1.08	0.87
Single-family attached <sup>a</sup> (Townhouse)	2 bedroom	2.00	0.16	0.13
	3 bedroom	2.66	0.44	0.38
Multifamily <sup>b</sup> (5+ unit structures)	0-1 bedroom	1.69	0.13	0.12
	2 bedroom	1.80	0.12	0.10

<sup>&</sup>lt;sup>a</sup> Owned and rented units of average value.

Source: Tables II-A-1 through II-A-3.

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<sup>&</sup>lt;sup>b</sup>Owned units only of average value.

<sup>&</sup>lt;sup>2</sup> The above-median and below-median price distinction is as indicated and should not be confused with the distinction between market-priced housing and below-market (or *Mount Laurel*)-priced homes. The indicated dollar figures for New Jersey housing values in this study are as of 2006.

- In other words, for every one-hundred 3-bedroom single-family detached homes, about 298 persons would be generated, including 58 school-age children, of whom 48 would likely attend public school. One hundred 2-bedroom townhouses would generate approximately 200 persons, including about 16 school-age children, 13 in public school. One hundred 2-bedroom multifamily condominiums would contain about 180 persons, of whom 12 would be of school-age, 10 attending public school.
- As is evident below, the residential demographic multipliers have generally declined between 1980 and 2000, with the rate of decline generally moderating or even reversing direction over the last decade (1990-2000). It is best to apply only the most current data in conducting demographic studies.

Table E-2 Illustrative New Jersey Statewide Demographic Multipliers for Newly Built Housing Over Time <sup>a</sup> (1980-2000)

Housing	Household Size		School-Age		Public School				
Type/Size				Children			Children		
	1980	1990	2000	1980	1990	2000	1980	1990	2000
Single-Family									
Detached b									
2 bedroom	2.24	2.08	2.03	0.19	0.13	0.12	0.16	0.10	0.10
3 bedroom	3.28	3.16	2.98	0.77	0.61	0.58	0.66	0.48	0.48
4-5 bedroom	4.12	3.84	3.77	1.43	1.08	1.08	1.21	0.84	0.87
Single-Family Attached <sup>b</sup> (Townhouse) 2 bedroom 3 bedroom	2.09 3.06	2.06 2.76	2.00 2.66	0.22 0.76	0.14 0.44	0.16 0.44	0.20 0.70	0.11 0.37	0.13 0.38
Multifamily b									
0-1 bedroom	1.52	1.48	1.53	0.03	0.06	0.08	0.02	0.05	0.07
2 bedroom	2.45	2.13	2.11	0.36	0.24	0.25	0.32	0.20	0.21
3 bedroom	3.50	3.11	3.11	1.08	0.74	0.77	0.96	0.61	0.67

<sup>&</sup>lt;sup>a</sup> Data for 1980 is for housing built 1970 through 1980; data for 1990, is for housing built 1980 through 1990; and data for 2000 is for housing built 1990 through 2000.

Source: U.S. Census of Population and Housing. Public Use Microdata Sample for New Jersey for the indicated years. Note: Multifamily in 1990 and 2000 includes all units in buildings of 5 or more units, multifamily in 1980 includes new garden apartments only. (The 1980 census allowed specification of garden apartments.)

• To further refine our demographic knowledge, this study presents exploratory data on three "specialized housing" types that have recently become more prevalent in New Jersey:

<sup>&</sup>lt;sup>b</sup>Owned and rented units of average value.

- Age-restricted housing<sup>3</sup> has a lower average household size and no school-age children nor public school children. The average household size for age-restricted units is 1.57 for single-family detached homes, 1.39 for single-family attached units, and 1.20 for multifamily homes.
- *Transit oriented development* (TOD) generates few public school children. Exploratory New Jersey data suggests that each TOD unit generates only about 0.02 public school children. In other words, 100 units in a TOD contain, on average, only 2 public school children.
- *Mount Laurel* housing in New Jersey, important for addressing the state's affordable housing need, generates (based on exploratory data) about 0.4 to 0.5 public school children per unit.<sup>4</sup>
- In summary, the current study shows the following with respect to the New Jersey demographic profile:
  - An overall decline in the current (2000) number of residents and pupils generated by new development in New Jersey compared to the figures found in earlier (1980 and 1990) investigations—with that decline, however, moderating or even modestly reversing direction in recent years.
  - In general, detached housing currently produces the highest number of residents and pupils compared to attached homes. Detached homes with more (4-5) bedrooms have the relatively largest household size and pupil generation.
  - Common types and configurations of attached housing, such as 2-3 bedroom townhouses and 1-2 bedroom multifamily units, have a relatively low demographic impact.
  - A modest demographic impact especially characterizes homes in a transit oriented development. *Mount Laurel* housing also has a lesser demographic impact than what is commonly believed.
- It is hoped that this study's residential demographic multipliers will serve as an important reference for New Jersey. It replaces demographic information for the state that is quite dated (e.g. based on the 1980 census) yet is still inappropriately referenced. Hopefully, the guide will correct misinformation concerning the demographic impact from New Jersey development. It is commonly assumed at the present time that each new housing unit contains about one public school child. The latest census data (2000) indicates that is the case statewide in New Jersey for only large (four or more bedroom) single-family, detached homes; attached homes generate about 0.1 to 0.7 public school children<sup>5</sup> per unit (e.g. 100 attached units contain about 10 to 70 publicly educated pupils). Further, residential construction of growing popularity in New Jersey, such as transit oriented development (TOD), generates yet fewer public school children. As noted, exploratory data suggests that 100 units in a TOD contain on average only 2 public school children.

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<sup>&</sup>lt;sup>3</sup> In such units, the householder must be at least 55 years or older and all members of the household must be at least 19 years old.

<sup>&</sup>lt;sup>4</sup> As noted earlier, *Mount Laurel* housing is not synonymous with "housing priced below the median value."

<sup>&</sup>lt;sup>5</sup>The range varies by specific housing type, size, value, and tenure.

- Similarly, this study informs the demographic impact of affordable housing, a subject of much misinformation, by providing exploratory data on the household size and number of school-age children and public school children in housing occupied by low-and moderate income households. To illustrate, about 19 public school children are generated by a 100 unit inclusionary condominium housing development in New Jersey (88 market-priced homes and 12 affordable homes). Approximately 3 of the 19 public school children come from the affordable homes.
- This study also presents exploratory data on *nonresidential multipliers*, or the number of employees per 1,000 square feet of nonresidential space (typically 1,000 square feet of gross floor area). There is no standard source for nonresidential multipliers and we assemble multiplier data from many national sources (e.g. *Census of Retail Trade* and the *Commercial Buildings Energy Consumption Survey* administered by the U.S. Department of Energy). The *estimates* of the nonresidential multipliers by business category are:

Table E-3 Nonresidential Multipliers Suggested by National Studies

Nonresidential Use:	Nonresidential Multipliers (employees per 1,000 ft of gross floor area)
I. Commercial	
A. Office	3.0 to 4.0
B. Retail	1.0 to 2.0
C. Eating &Drinking	3.0 to 4.0
II. Industrial	
A. Warehouse	0.2 to 0.8
<ul><li>B. Manufacturing &amp; Industry</li></ul>	1.0 to 2.0
III. Hospitality and Other	
A. Lodging	0.5 to 1.0
B. Health	2.0 to 3.0
C. Schools	0.8 to 1.2

Source: Part Two of the current study.

- As noted, the nonresidential multipliers indicated in table E-3 are based on national studies and therefore care must be exercised in applying these figures to New Jersey. For instance, a disproportionate amount of office space in New Jersey compared to the nation is used for research and development (e.g. in the state's significant pharmaceutical industry) and R&D office space tends to have relatively few employees (about 2) per 1,000 square foot. Further, macro economic and social trends, such as downsizing, mechanization, telecommuting, and work sharing are influencing and changing worker density, both in New Jersey and the nation at larger. Therefore, the table E-3 figures should be viewed as a start rather than a last word on nonresidential multipliers.
- Indeed, all multipliers, both residential and nonresidential, need to be continuously updated, refined and tested. Rutgers University, in collaboration with New Jersey planners, developers, and

<sup>6</sup> This calculation makes the following assumptions. All the 100 for-sale homes are in structures of 5 or more units. Of the 88 market-priced homes, half are two-bedroom and the remaining half are three-bedroom in size, and all the 88 units are assumed to exceed the median in price. Of the 12 affordable for-sale homes, 25 percent are one-bedroom, 50 percent are two-bedroom, and 25 percent are three-bedroom.

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government officials, is engaged in that process. Rutgers has tested the census-based pupil multipliers against the real world demographic experience (as ascertained from school records and other sources) of 61 attached housing developments scattered throughout New Jersey. The 14,191 attached housing units in these developments contain 1,975 public school children (an overall public school children multiplier of 0.14 or 1,975/14,191) --a close fit to the 1,941 public school children that would have been predicted from the census-based multipliers. The 90 percent confidence interval of the census-based demographics range from 923 public school children (low) to 3,006 public school children (high). Rutgers has further tested the population generation of 19 age-restricted communities in New Jersey. The 5,060 detached (about two-thirds) and attached (about one- third) housing units in these developments contained 7,664 residents (an overall household size of 1.51 or 7,664/5,060) -- a very close fit to the 7,643 residents that would have been predicted from the age-restricted household size multipliers contained in this monograph.

- The residential demographic multipliers contained in this document provide important statewide average benchmark data that can only go so far in accurately predicting the actual demographic impact of housing development in a specific community. For instance, a given community may attract "more" or "fewer" public school children per housing unit because of such differences as geography (e.g. housing in New Jersey's "gold coast" along the Hudson River may attract "Manhattan-oriented" households with few children) and the "quality of the local school district" (e.g. households with more children may disproportionately self-select to live in high-quality school systems).
- For best results, the state-level data presented here should be supplemented by local analysis, such as conducing case studies of the actual population, and especially public school children generation of occupied housing developments comparable in character (i.e. type, size, price, and tenure) and location to the subject development(s) being considered by the analyst. For example, in analyzing the likely public school children generation from 4-bedroom single-family detached homes priced at \$600,000 apiece proposed for Princeton Township, an analyst should first consider this study's Central New Jersey data for the average number of public school children (0.93) in housing of this type (single-family detached), size (4 to 5 bedrooms), and price level (above median value). The analyst should then identify comparable detached homes (e.g. 4-bedroom detached units priced \$550,000 to \$650,000) that are occupied in Princeton and nearby communities and should then ascertain these developments' actual public school children generation from public school data (e.g. busing and other information).
- Case studies of the actual demographic impact are especially appropriate when examining the effects of high-rise buildings (structures with 6 to 7 or more stories) because the multifamily data contained in this study, based on census information, cannot differentiate low-rise buildings from high-rise apartments and anecdotal evidence and historical data<sup>7</sup> indicate that high-rise development has a lower household size and school children generation<sup>8</sup> relative to low-rise development. Case studies are also suggested for TODs and other types of infill projects and for *Mount Laurel* housing because the demographic data on these emerging categories of development

<sup>7</sup> The 1980 census was the last time high-rise structures could be differentiated from multifamily buildings in general. The 1980 census indicated that high-rise buildings had a lower average household size, and a lower average number of school-age children and public school children relative to the overall category of multifamily structures.

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<sup>&</sup>lt;sup>8</sup> That is true to some extent for housing units in mid-rise buildings (structures with 4 to 6 stories). Contemporary anecdotal evidence and the 1980 census (the last time the census differentiated buildings by number of stories) indicate that mid-rise development has a lower household size and pupil generation relative to low-rise development.

are exploratory. In a similar vein, further case study work will help refine the quantification of the density of employment in nonresidential land uses. The combination of this document's multipliers and local analysis provides a comprehensive framework for beginning to answer who lives in New Jersey housing and how many workers are found in different categories of nonresidential development in this state.

- As with all analyses, there are limitations as well as advantage to the current study.
  - The residential demographic profile is a moving target and while the current investigation uses the latest available (2000) census information, that itself is becoming dated.
  - While the census is the best source available to demographers it has acknowledged shortcomings, such as under-representation of certain ethnic and racial populations.
  - The demographic profiles derived in this document represent an average based on a sample and there is a variation around the indicated average. Accordingly, this study presents the confidence interval around each of the residential demographic multipliers as well as other statistics, such as the standard error.
  - The residential multipliers are a "snapshot" glance in time (observing in 2000 the demographic profile of housing built 1990 through 2000) and that "snapshot" may change over time. The nonresidential multipliers are also a "snapshot."
  - In short, there are limitations to the current study and humility is in order whenever dealing with demographic multipliers. At the same time, this publication presents the most comprehensive and current compilation of arms-length data concerning demographic multipliers. The study also benefited from extensive peer review from knowledgeable professionals from the public and private sectors in New Jersey.
- For easy use, the monograph is organized into two parts. The first describes the residential and nonresidential demographic multipliers and presents illustrative examples and analytic applications. The second part contains the general application (all housing) New Jersey multipliers for household size, school-age children, and public school children); specialized housing residential multipliers (for age-restricted, TOD, and *Mount Laurel* homes), and finally the nonresidential multipliers. Table E.4 presents an overview guide to all of the tables containing the multiplier data assembled in this monograph.

Table E-4
Tabular Guide (and Page Numbers) to the Residential and Nonresidential Demographic
Data

Information		Data	Area and Date	<u> </u>	
		Б			Б
A CENERAL ARRIVATION	Α.	B.	C.	D.	E.
I. GENERAL APPLICATION	Statewide	Statewide	Northern NJ <sup>a</sup>	Central NJ b	Southern NJ <sup>c</sup>
RESIDENTIAL DEMOGRAPHIC DATA	NJ (2000)	NJ (1990)	(2000)	(2000)	(2000)
1 77 - 1	H A 1 d (50) e	H.D. 1 (77)	H C 1 (04)	H D 1 (107)	H F 1 (120)
1. Total persons and persons by age	II-A-1 <sup>d</sup> (56) <sup>e</sup>	II-B-1 (75)	II-C-1 (94)	II-D-1 (107)	II-E-1 (120)
2. School-age children and grade level	II-A-2 (59)	II-B-2 (78)	II-C-2 (96)	II-D-2 (109)	II-E-2 (122)
3. Public school children and grade level	II-A-3 (62)	II-B-3 (81)	II-C-3 (98)	II-D-3 (111)	II-E-3 (124)
4. Total persons (statistics)	II-A-4 (65)	II-B-4 (84)	II-C-4 (108)	II-D-4 (113)	II-E-4 (126)
5. School-age children (statistics)	II-A-5 (68)	II-B-5 (89)	II-C-5 (102)	II-D-5 (115)	II-E-5 (128)
6. Public school children (statistics)	II-A-6 (71)	II-B-6 (90)	II-C-6 (104)	II-D-6 (117)	II-E-6 (130)
	Northeast				
II. SPECIALIZED HOUSING	United				
RESIDENTIAL DEMOGRAPHIC	States and				
MULTIPLIERS	Statewide				
	NJ (2000)				
<ol> <li>Age-Restricted Housing</li> </ol>	II-F-1 (132)				
2. Transit Oriented Development	II-G-1 (134)				
3. Mount Laurel Housing	II-H-1 (137)				
	Northeast				
III. NONRESIDENTIAL MULTIPLIERS	United States				
	and National				
	(1990-2000)				
1. Overall	II-I-1 & -2				
	(140-141)				
2. CommercialOffice	II-I-3 (142)				
3. Commercial—Retail	II-I-4 (145)				
4. Commercial—Eating and Drinking	II-I-5 (147)				
5. Industrial—Warehouses	II-I-6 (148)				
6. Industrial—Manufacturing	II-I-7 (149)				
7. Hospitality and other—Lodging	II-I-8 (151)				
8. Hospitality and other—Health	II-I-9 (152)				
9. Hospitality and other—Schools	II-I-10 (153)				

<sup>&</sup>lt;sup>a</sup> Northern New Jersey includes Bergen, Essex, Hudson, Morris, Passaic, Sussex, and Union counties.

<sup>&</sup>lt;sup>b</sup> Central New Jersey includes Hunterdon, Mercer, Middlesex, Monmouth, Ocean, and Somerset counties.

<sup>&</sup>lt;sup>c</sup> Southern New Jersey includes Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, and Salem counties.

<sup>&</sup>lt;sup>d</sup> Refers to table number.

<sup>&</sup>lt;sup>e</sup> Figure in parentheses refers to page number.

# PART ONE AN INTRODUCTION TO DEMOGRAPHIC MULTIPLIERS AND ILLUSTRATIVE APPLICATIONS

#### DEMOGRAPHIC MULTIPLIERS: DEFINITION AND OVERVIEW

Projecting the fiscal and other impacts from development, establishing infrastructure standards to accommodate growth, calibrating off tract development charges, and numerous other analyses are dependent upon knowing the number of persons and school children found in residential structures and the number of employees within nonresidential buildings. The numbers and profile of these people and workers in different housing types and varying land uses are referred to in this study as *demographic multipliers*. There are *residential multipliers* that show the populations associated with different categories of housing and *nonresidential multipliers* that indicate the number of workers in different types of nonresidential development.

Residential multipliers include data on the two principal users of local services: people, for municipal services; and school children, for educational needs. The multipliers for household size represent the average number of persons living in a housing unit; the figures for school children quantify the number of persons of elementary and secondary school-age (school-age children multiplier) and the subset of school-age children attending public schools (public school children multiplier). For instance, if a housing unit's demographic multiplier is 2.50 for household size and 0.50 for public school children, then 100 such homes can be expected to contain 250 persons, including 50 publicly educated pupils.

Nonresidential multipliers indicate the number of employees associated with different types of nonresidential land uses, such as office, retail, and industrial. The multipliers are typically expressed as the worker count per 1,000-square-foot module. For instance, per 1,000 square feet of office space, typically there will be 3 to 4 workers; for every 1,000 square feet of retail space, 1 to 2 workers; and per 1,000 square feet of industrial activity, 0.5 to 2 workers. Within each class of space there are further variations in employee density depending on the specific usage. Thus, prestigious corporate offices or offices used mainly for research purposes will have fewer workers per 1,000 square feet compared to back office space.

Thus far, multipliers have been discussed in terms of their count of people and workers associated with different types of residential and nonresidential space, respectively. Multipliers also encompass selected information on the profile of the population and work force. These include, for instance, the percentage of school children who attend public schools in a two-bedroom townhouse versus a one-bedroom garden apartment, and the age distribution of the household members in these respective units.

#### DEMOGRAPHIC MULTIPLIERS: CHANGES OVER TIME

Multipliers are forever in flux as the character of America's households and workforce evolves over time.

In general, the residential multipliers have declined over time, with that decline moderating in recent years (or even reversing direction) as America went from a "baby boom" to a "baby bust" and then to a "baby boom echo" phase. This evolution is illustrated by the demographic trendline for housing in New Jersey over recent decades (table E-2). For example, as monitored by the 1980 census, the average 4-5 bedroom single-family detached home in New Jersey built over the 1970s contained 4.12 persons, including 1.21 public school children; by the 2000 census, these figures for housing built over the 1990s had dropped to 3.77 persons and 0.87 public school children. Townhouses and multifamily units in New Jersey also typically contained a smaller household size and number of public school children in 2000 relative to 1980 (table E-2). Yet, the generally downward demographic trendline of the modern era has moderated or even reversed direction over the last decade (1990-2000) (see table E-2 for details).

What has happened to the nonresidential multipliers over time? From albeit limited historical data (Nelson 2004), it appears that the number of workers per 1,000 square feet of gross floor area (GFA) has declined significantly over time (table I-1).

Table I-1 National Nonresidential Multipliers Over time (1942-2000)

	Employees per 1,000 Square Feet						
Year	of	of Gross Floor Area					
	Office <sup>a</sup> Manufacturing <sup>b</sup>						
1942	9.09						
1958	8.26						
1961	2.57						
1979	5.03						
1980	4.78	4.78					
1990	3.97						
1991		2.02					
2000	3.57 <sup>b</sup>	1.83					

<sup>&</sup>lt;sup>a</sup> Adapted from: Armstrong (1972); Building Owners and Managers Association International (1980); Price Waterhouse Real Estate Group (1991); NAIOP (1990).

Source: Nelson, Arthur. 2004. Planner's Estimating Guide: Projecting Land-Use and Facility Needs, Chicago: Planner Press, American Planning Association

Yet this downward trend in nonresidential multipliers may itself be altered by the many forces affecting the American economy, such as downsizing, outsourcing, telecommuting, work sharing, and growing mechanization.

In sum, demographic multipliers are constantly changing over time and this monograph presents the most current demographic data for application in New Jersey.

<sup>&</sup>lt;sup>b</sup>Extrapolation of trends

#### NEW JERSEY DEMOGRAPHIC MULTIPLIERS

Part Two of this study presents residential and nonresidential multipliers for New Jersey organized as follows:

#### **Residential Multipliers**

General application (all housing) residential multipliers.

Statewide - all New Jersey

By region – Northern New Jersey

By region – Central New Jersey

By region – Southern New Jersey

Specialized housing residential multipliers

Age-restricted housing

Transit oriented development housing

Mount Laurel below-market rate (affordable) housing

#### Nonresidential Multipliers

The greatest detail and statistical reliability is available for the general application residential multipliers that is for housing not specialized in type. In specialized housing, legal restrictions (in the case of age-restricted or *Mount Laurel* units), household self- selection (e.g. empty nester and younger households cluster in TODs), and other factors skew the population profile from the generally applicable demographic patterns. It is important to acknowledge, however, that relative to housing in general, our knowledge of the demographics of specialized housing is a work in progress for the former can be studied from large sample census surveys while the specialized housing generally can not.

The work in progress nature of our knowledge also characterizes information on nonresidential multipliers. The latter are also usually not available from the census and the sources that do inform the numbers of workers in nonresidential space are disparate in type and often provide inconsistent results. Despite these shortcomings, it is instructive to assemble the best available data on nonresidential worker density. The nature, organization, and sources for all of the residential and nonresidential multiplier data are detailed below.

#### GENERAL APPLICATION RESIDENTIAL MULTIPLIERS FOR NEW JERSEY

#### **Data Fields**

The data fields and organization of the New Jersey general application (i.e., not specialized housing) residential demographic multipliers include:

1. Household Size (HS): Total persons per housing unit.

- 2. Age distribution of the household members organized into the following age categories: 0-4, 5-17, 18-34, 35-44, 45-54, 55-64, 65-74, 75+.
- 3. Total school age children (SAC) or number of persons in the household of school age, defined as those 5 to 17 years old. (The SAC is the same as the number of household members in the 5-17 category.)
- 4. Total public school children (PSC), or the SAC who attend public schools.
- 5. The SAC and PSC by school level and grade group organized as follows: elementary (kindergarten-grade 6), junior high school (grades 7-9), and high school (grades 10-12).

The demographic fields shown above are differentiated by *housing type*, *housing size*, *housing price*, *housing tenure*, and *housing location*.

The housing or structure types include the following: single-family detached; single-family attached, sometimes referred to as townhouses or townhomes; larger (5-or-more-unit), multifamily buildings, such as garden apartments or stacked flats; and smaller multifamily structures (2 to 4 units). (See definition table (p.3) for a formal census definition of each housing type.) As the 2000 census, the source for the general application residential multipliers, does not have information on the stories in a housing structure, (this was last available from the 1980 census), the multiplier presentations cannot disaggregate multifamily housing into garden, mid-rise, and high-rise categories.

Housing-unit size is measured by the number of bedrooms, and data are presented for housing units ranging from 0 (studio) to 5 bedrooms. According to the census, this housing feature is defined as "the number of rooms that would be listed as bedrooms if the house [or] apartment...were listed on the market for sale or rent even if these rooms are currently used for other purposes." There is an association between housing type and bedroom number, and the demographic multiplier tables in Part Two present the common configurations for each housing type. For instance, demographic data are shown for 0-and-1-bedroom multifamily units and not 4-5 bedroom such homes because the multifamily housing tends to be built with fewer rather than more bedrooms. The opposite is the case for single-family detached homes; in this instance, data are presented for 2-to 5-bedroom units as opposed to 0-1 bedroom units because detached housing is typically built with greater rather than fewer bedrooms.

Housing is additionally classified by tenure: *owned* or *rental*. According to the census, a "housing unit is owner occupied if the owner or co-owner lives in the unit even if it is mortgaged or not fully paid for. All occupied housing units that are not owner occupied, whether they are rented for cash rent or occupied without payment of cash rent, are classified as renter occupied."

There is a further differentiation in the demographic profiles by housing value or rent. The census definitions for "value" and "rent" are shown on page 3; with regard to the latter, the current study utilizes the "gross rent" (rent with utilities) rather than the "contract rent." (See

page 3 for rent definitions). If a housing unit is rented, the unit's housing value is estimated at 100 times the gross monthly gross rent.

The 2000 census-indicated values and gross rents are updated to 2006 using a residential price inflation index ("median price of single-family homes by state") available from the Federal Housing Finance Board (FHFB). The FHFB's data are for 2000 through 2004. Housing values for 2006 were determined by extending the FHFB's indicated housing price change for 2003-2004 to both 2004-2005 and 2005-2006.

The demographic profiles by 2006 housing values and gross rents are organized following a tri-partite classification: housing priced below the median, housing priced above the median, and all value housing. (See page 3 for census definition of "housing value.") The above housing value terms are just as they are stated. "Housing priced below the median" should not be confused with "affordable" or Mount Laurel housing as it is sometimes referred to in New Jersey. "Housing priced above the median" is not synonymous with what is sometimes referred to as "market-rate housing" (to contrast the "market-rate" from the "affordable" or "Mount Laurel" categories).

To illustrate, the statewide median priced 3-bedroom New Jersey townhouse as of 2006 was valued at \$267,744. Three-bedroom townhouses priced below \$267,744 would be in the "below median" category, while those priced above \$267,744 would be in the "above median" category. To reiterate, these price break points have no relationship to "affordable" or "Mount Laurel" versus market-priced housing. Figures for Mount Laurel housing (more specifically for low- and moderate-income households in New Jersey) are separately contained in the specialized housing section of the current study.

#### **Data Geography and Grouping**

The demographic data are presented for different New Jersey geographic locations: *statewide*, and for *three-regions of the state—northern*, *central*, *and southern*—comprised as follows:

Table I-2 Northern, Central, and Southern New Jersey Regions: Inclusive Counties and Relationship to Council on Affordable Housing (COAH) Regions

Three Regions	New Jersey Counties	Council on Affordable Housing (COAH)
		Regions
1. Northern	Bergen	Northeast and Northwest
	Essex	Northeast and Northwest
	Hudson	Northeast and Northwest
	Morris	Northeast and Northwest
	Passaic	Northeast and Northwest
	Sussex	Northeast and Northwest
	Union	Northeast and Northwest
2. Central	Hunterdon	West Central and East Central
	Mercer	West Central and East Central
	Middlesex	West Central and East Central

	Monmouth	West Central and East Central
	Ocean	West Central and East Central
	Somerset	West Central and East Central
3. Southern	Atlantic	Southeast and South Southwest
	Burlington	Southeast and South Southwest
	Camden	Southeast and South Southwest
	Cumberland	Southeast and South Southwest
	Gloucester	Southeast and South Southwest
	Salem	Southeast and South Southwest

Source: See text

The regional demographic data are organized in the same fashion as the statewide multipliers. Thus, the regional multipliers are differentiated by housing type, size price, and tenure.

A final comment concerns the grouping of some of the data categories, both at the state and regional levels. In order to maintain sufficient sample size and reliability in the estimates, Part Two sometimes groups selected housing size categories. This is typically done for the less common housing configurations for as these are less prevalent, there are fewer of them to sample. A small sample size, in turn, would result in an average with an unacceptably low level of statistical reliability. For instance, since there are few studio (0 bedroom) multifamily units, this housing category is grouped with the 1-bedroom multifamily units in order to form an aggregate 0-1 bedroom group for which we have more robust sample size and statistical reliability. As the regional data reduces the sample size within each region relative to the statewide sample, more housing categories must be grouped in the regional tabulations in order to enhance the statistical robustness of the regional estimates.<sup>9</sup>

In sum, the general application residential demographic data are organized as follows:

<sup>&</sup>lt;sup>9</sup> Statistical considerations guided other aspects of the current study, such as using a three tier taxonomy of housing value (above the median, below the median, and all values) instead of a five category grouping of housing value.

Table I-3
Organization of the New Jersey Residential Demographic Multipliers

Housing Structure-Type/ Bedrooms/ Value/ Tenure-Own & Rent *	Statewide	Three Regions
Single Family Detached- Own & Rent <sup>a</sup>		
2 Bedroom	X	
3 Bedroom	X	
2-3 Bedroom		X
4-5 Bedroom	X	X
Single-Family Attached- Own & Rent <sup>a</sup>		
2 Bedroom	X	
3 Bedroom	X	
2-3 Bedroom		X
4-5 Bedroom	X	X
Larger (5+ units) Multifamily- Own & Rent <sup>a</sup>		
0-1 Bedroom	X	X
2 Bedroom	X	
3 Bedroom	X	
2-3 Bedroom		X
Larger (5+ units) Multifamily- Own a		
0-1 Bedroom	X	
2 Bedroom	X	
3 Bedroom	X	
Larger (5+ units) Multifamily – Rent <sup>a</sup>		
0-1 Bedroom	X	
2 Bedroom	X	
3 Bedroom	X	
Smaller (1-4 unit) Multifamily- Own & Rent <sup>a</sup>		
0-1 Bedroom	X	X
2 Bedroom	X	
3 Bedroom	X	
2-3 Bedroom		X
All Housing Types-Own <sup>a</sup>		
0-1 Bedroom	X	X
2 Bedroom	X	
3 Bedroom	X	
2-3 Bedroom		X
4-5 Bedroom	X	X

<sup>&</sup>lt;sup>a</sup> Differentiated by 3 housing value categories (as of 2006): All values, below median value, and above median value.

Housing priced at below the median value is not synonymous with "below market" or "Mount Laurel" units. Housing priced at above the median value is not synonymous with "market- priced" units. See table II-H-1 for exploratory data on the demographic profile of low- and moderate income households in New Jersey. The indicated dollar figure for New Jersey housing values in this study are as of 2006. Source: See text.

#### **Data Period and Source**

The general application residential data are usually presented as of 2000 and encompass the demographic experience of New Jersey dwellings built 1990 to 2000 as monitored in 2000. The 2000 data are presented because this is the most current information available from the federal decennial census. The 2000 analysis taps the 2000 *Census of Population and Housing* for New Jersey, focusing on newer built units in this state (New Jersey housing constructed 1990 to 2000 monitored by the 2000 census).

To lend historical perspective on the 2000 figures, some 1990 general application multipliers are presented as well. This is done for New Jersey as a whole and not separately for the northern, central, and southern regions of the state. In parallel to what was done in 2000, the 1990 statewide multipliers are derived from the 1990 *Census of Population and Housing* for New Jersey, focusing on housing units constructed in this state from 1980 to 1990 as monitored in 1990.

For both 2000 and 1990, the specific census information that is tapped is the *Public Use Microdata Sample* (PUMS) because only PUMS allows the detailed crosstabulation of demographic information detailed later. By way of background, the decennial *Census of Population and Housing* contains both published summary data and public use microdata on computer tape. In the summary data (i.e., the published census volumes), the basic unit is an identified geographic area, and information on people and housing is presented by geographic area (e.g., Newark, New Jersey or the entire state). The published data are readily usable, but their use is limited to the information as presented; it is not possible to specify crosstabulations of housing by demographic variables (e.g., to examine the association between housing and population characteristics). For instance, while average household size for a given community or the state as a whole is available from the published summary data, census publications do not indicate household size for two-bedroom townhouses versus three-bedroom townhouses, the detailed information sought by most analysts.

By contrast, the *Public Use Microdata Sample* does permit cross-tabulation of one variable by any other desired variables. The basic unit in the PUMS is a housing unit and its occupants. These disaggregated data can be summarized and, most importantly, allow detailed study of the relationships between housing and population characteristics such as those described in the previous section. With the Public Use Microdata Sample, the analyst can undertake cross-tabulation of size of household (including the number of school-age and public school household members) by the type, size, value, tenure, and location of the housing unit—the data presented in Part Two of this study.

The *Public Use Microdata Sample* is available for different levels of geographic detail such as the nation, state, and counties/county groups. (The United States Census Bureau is enjoined from releasing *Public Use Microdata* samples for geographic areas containing fewer than 100,000 persons.) The PUMS is available in a 1 percent or 5 percent sample. The current study uses the 5 percent PUMS sample for New Jersey from both the 1990 and 2000 census.

#### **Data Statistics and Statistical Analysis**

As the PUMS is a sample of the larger universe of all households and we use the New Jersey portion of the PUMS, it is incumbent to present relevant statistics that indicate the sample size, the dispersion of the data, and the confidence intervals of the indicated demographic information. For three key multipliers—household size (HS), school-age children (SAC), and public school children (PSC)—Part Two presents the following:

- 1. *Sample size* or N, expressed in terms of the number of sampled households from which the HS, SAC, or PSC were derived.
- 2. Standard error (SE)<sup>10</sup>—a measure of an estimate's variability. The greater the estimated standard error in relation to the size of the estimate (HS, SAC, or PSC), the less reliable the estimate. Approximately 68 percent of the time, the sample estimate will be within one SE of the true population value; about 95 percent of the time, the sample estimate will be within 2 SEs of the population value; and about 99 percent of the time, the sample estimate will be within 3 SEs of the population value.
- 3. Confidence Interval (CI) quantifies the uncertainty in measurement by providing a range of values from low to high that has a specified probability (e.g. 99, 95, or 90 percent) of containing the true population value. Part Two presents the 90 percent CI.
- 4. *Error Margin as Percent* (EMP) is computed for the 90 percent confidence interval as percentage of the estimated average. <sup>11</sup> Statisticians "prefer" an EMP of 50 percent or less.

The statewide New Jersey general application demographic multipliers have the largest N for any given housing type relative to the regional-specified general application multipliers and the former have relatively lower SEs, tighter CIs, and lower EMPs. The regional-specified multipliers provide the added benefit of place sensitivity—but at the price of being based on a lower N and having relatively higher SEs, broader CIs, and higher EMPs compared to that of the statewide values.

This comparison is illustrated by the SAC value and associated statistics for a 0-1 bedroom housing unit in a larger multifamily (5 or more unit) structure of above median value for the entire state of New Jersey and for northern New Jersey respectively.

 $<sup>^{10}</sup>$  The term standard error may be applied to the sampling distribution of any statistic; that is, the standard deviation of the sampling distribution of any statistic is called the standard error of the statistic. For example, the standard error of the mean,  $\sigma$ , is the standard deviation of the sampling distribution that would result if many samples of size n were drawn and the sample means, X, computed.

<sup>&</sup>lt;sup>11</sup> This is calculated as follows: Error margin=SE\*1.645\*100/estimated average

Table I-4
Illustrative Statistics for New Jersey Demographic
Multipliers (2000)

IV.	tutupners (2000)	
Housing Category		
Location	Entire State	Northern New Jersey
Type	Multifamily	Multifamily
Size (bedrooms)	0-1	0-1
Tenure	Own & Rent	Own & Rent
Price	Above median	Above median
Period	2000	2000
Demographics/Statistics		
SAC	0.061	0.048
N	14,323	7,058
SE	0.012	0.015
90% CI		
low	0.041	0.023
high	0.081	0.073
EMP	33%	52%
January Toble II A 5		

Source: Table II-A-5

In using the statewide SAC value for the above housing unit, the analyst gains the benefit of a twice as large an N relative to the North Jersey value (14,323 versus 7,058) and a relatively "tighter" estimate with respect to SE, CI and EMP. Further, the state values, as noted earlier, are also more fine grained. For instance, statewide statistics differentiate the SAC in a multifamily structure for 2-bedroom versus 3-bedroom units while northern (as well as the central and southern) New Jersey SAC data combine the 2-and 3-bedroom values because there was insufficient sample at this regional level to differentiate the 2-versus the 3-bedroom units. Yet, using the regional values offers the benefit of place sensitivity. For instance, the above example suggests that the SAC for a 0-1 bedroom multifamily higher-valued (above median) unit is lower in North Jersey than the state as a whole.

The above tradeoffs will need to be considered by the analyst in deciding which general application demographic data presented in Part Two to use. The statistics provided will help inform that decision.

What variables are associated with differences in the demographic profile? Statistical analysis by this study's authors of the general application residential multiplier data finds the following. In general, larger units (in terms of bedrooms) have statistically significant more household members and school children (both SAC and PSC) and housing types that typically are larger (in terms of bedrooms), such as single-family detached homes, are statistically more population-intensive than their counterparts typically constructed with a smaller number of bedrooms, such as multifamily units.

While housing size and relatedly housing type are the primary characteristics associated with the statistically significant variation in the number of people and school children generated by a given housing unit, there are other influences. There is a statistically significant relationship between housing price and population intensity (HS, SAC, and PSC) with the population yield somewhat higher in less expensive units of a given size and type and somewhat lower in their more expensive counterparts. Housing tenure, whether a unit is owned or rented, also is statistically associated with the demographic profile. In general, larger (2 or more bedroom) rental housing of all housing types are relatively more population intensive (HS, SAC, and PSC) than the owned housing counterparts. In contrast, smaller (0-1 bedroom) rental housing of all housing types tends to contain statistically fewer household members and school children (SAC and PSC) than comparable owned housing. Finally, there are some statistically significant differences in HS, SAC, and PSC by region of New Jersey.

The detailed statistical analysis related to the above findings is available from the authors. In brief, a commonly applied statistical application, OLS (ordinary least squares) regression, was applied to examine what variables are associated with statistically significant differences in the demographic profile (HS, SAC, and PSC) controlling for the other variables (e.g. examining the association of housing type, controlling for housing size and tenure). That study revealed that housing type, housing size, housing value, housing tenure, and New Jersey region are all associated with statistically significant variation in demographic profile (HS, SAC, and PSC). In terms of explanatory power of variation in demographic profile, the number of bedrooms is the most powerful, then building type, building value, and then housing tenure and New Jersey region, but there is not much difference in explanatory power among the latter four variables.<sup>12</sup>

It is important to differentiate, however, between a statistically significant variation and a difference of practical import. The former refers to a difference that statistically would not likely be due to chance; the latter is framed contextually and may vary by differing users, applications, and components of the demographic data.

For instance, the number of public school children in an average statewide 0-1 bedroom home of below-median value in a 5+ unit building is 0.07 for rental tenure versus 0.17 for ownership tenure—a statistically significant variation by tenure that for most observers would be of practical import as well. However, the finding that a 3-bedrooom single-family detached home of above median value has a statewide average household size of 2.91 versus a household size of 3.04 for its below median counterpart, while significant statistically, may for many users not be of practical import.

#### **Data Organization**

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The general application demographic data for both New Jersey as a whole and for the state's three regions is presented in a series of six tables as follows:

 $<sup>^{12}</sup>$  To compare the relative explanatory power of different variables, we used a variant of the stepwise regression. Specifically, we excluded each variable (or set of variables) from the regression, one at a time, and checked by how much the adjusted  $R^2$  declined, as a result. The variable whose exclusion results in the largest drop in the adjust  $R^2$  has the biggest explanatory variable.

- 1. Total persons and persons by age
- 2. School-age children and grade distribution
- 3. Public school children and grade distribution
- 4. Total persons (statistics)
- 5. School-age children (statistics)
- 6. Public school children (statistics)

There are thus a total of 30 tables derived from the PUMS—12 for the state (6 each for 1990 and 2000) and an additional 6 each for the 2000 data presented for northern, central, and southern New Jersey respectively. For handy reference, table I-5 presents a guide to the 30 general application demographic tables found in Part Two.

Table I-5
Tabular Guide to the General Application Residential Demographic Data for New Jersey

	<u> </u>	rscy				
Information	Area and date					
	A.	B.	C.	D.	E.	
	Statewide	Statewide	Northern	Central	Southern	
	(2000)	(1990)	NJ <sup>a</sup>	NJ <sup>b</sup>	NJ <sup>c</sup>	
			(2000)	(2000)	(2000)	
1. Total persons and persons by age	II-A-1	II-B-1	II-C-1	II-D-1	II-E-1	
2. School-age children and grade level	II-A-2	II-B-2	II-C-2	II-D-2	II-E-2	
3. Public school children and grade level	II-A-3	II-B-3	II-C-3	II-D-3	II-E-3	
4. Total persons (statistics)	II-A-4	II-B-4	II-C-4	II-D-4	II-E-4	
5. School-age children (statistics)	II-A-5	II-B-5	II-C-5	II-D-5	II-E-5	
6. Public school children (statistics)	II-A-6	II-B-6	II-C-6	II-D-6	II-E-6	
	II.					

<sup>&</sup>lt;sup>a</sup> Northern New Jersey includes Bergen, Essex, Hudson, Morris, Passaic, Sussex, and Union counties.

#### SPECIALIZED HOUSING RESIDENTIAL MULTIPLIERS FOR NEW JERSEY

The PUMS applies to all housing and does not separately break out specialized housing, such as age-restricted units, units in transit oriented developments, and specially designated affordable dwellings, such as *Mount Laurel* homes in New Jersey. That inability to distinguish the specialized units is unfortunate because the specialized developments are growing in popularity. More significantly, the demographic profile of the specialized housing differs from that indicated in the generally applicable multipliers for numerous reasons. Legal restrictions can influence the demographics as, for instance, children not being allowed in an age-restricted development with the further requirement that one member of the household be a minimum of 55 years old. *Mount Laurel* units are legally restricted to low- and moderate-

<sup>&</sup>lt;sup>b</sup> Central New Jersey includes Hunterdon, Mercer, Middlesex, Monmouth, Ocean, and Somerset counties.

<sup>&</sup>lt;sup>c</sup> Southern New Jersey includes Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, and Salem counties.

income households and that income designation may affect the demographic profile of the occupants of such units.

Household self-selection may also play a role. Because of lifestyle and other reasons, certain types of senior households (e.g. older or younger or employed or retired) may disproportionately seek out age-restricted developments and this will affect the demographics of such projects. Similarly, a disproportionate share of certain types of households, such as empty nesters and younger, single, and childless households, may be most attracted to the intown, close-to-transit, and high-amenity and service features of TODs and this self-selection will affect the TOD's demographic profile. These considerations argue against using the general application residential multipliers derived from the PUMS for the specialized housing.

Unfortunately, *only limited data are available on the specialized housing types*, however, to at least begin to advance our knowledge in this arena, Part Two presents some information.

#### **Data Fields and Geography**

For the age-restricted housing, statewide-relevant information is presented on:

- 7. Household size (HS): the total persons per housing unit.
- 8. Age distribution of the household members organized into the following age categories (35-44, 45-54, 55-64, 65-74) Legally, the age-restricted units may not permanently house those under 19 years of age and that explains the categories starting at the 19-34 years-of-age group. The age-restricted housing contains neither school age children nor public school children.

For the TODs, only the following statewide data, and that of an exploratory nature, are presented:

1. Number of public school children.

For the *Mount Laurel* housing, again only exploratory statewide data are available on:

- 1. Household size (HS): the total persons per housing unit.
- 2. Number of school-age children.
- 3. Number of public school children.

The reason why many more fields of information are available for the age-restricted versus the TOD and *Mount Laurel* units is that the former can be studied via a large scale database while the latter two categories generally cannot. (The respective data sources are detailed shortly.) For the same reason, the multipliers for the specialized housing are presented for statewide application as opposed to differentiating the multipliers by region of the state.

#### **Data Sources**

While the decennial census does not flag age-restricted housing, the *American Housing Survey* (AHS), does contain information for "senior citizen communities" defined as "persons 55+ years in age." This may not exactly parallel the typical active adult community age requirement (i.e. one person is at least 55 and all household members are at least 19 years of age), however, it comes close. Since the AHS is tapped for the age-restricted data, some background on this source is in order.

The AHS is conducted by the Bureau of the Census for the U.S. Department of Housing and Urban Development. Until 1981, the bureau collected information annually on the characteristics of each housing unit and the people in it. Subsequently, the survey has been conducted in every odd-numbered year. Further, its name changed from the *Annual Housing Survey* to the *American Housing Survey*.

The AHS consists of two separate parts: a national survey of housing units throughout the country and surveys of selected metropolitan areas. The two parts use completely different samples. The national survey covers between 50,000 and 80,000 homes while the metropolitan survey reports the results of between 3,000 and 15,000 interviews. The AHS surveys about one in 3,000 housing units in contrast to the PUMS's one-in-20 survey (for the 5 percent PUMS sample). As noted, however, the AHS is a much more frequent survey compared to the decennial sample (PUMS) and only the AHS contains data for age-restricted housing. Because of sample size considerations, data on the AHS's "senior citizen communities" is derived from the national AHS database. The current study uses the data from the 2003 AHS and examines the demographic profile of the age-restricted homes built 1990 to 2003. To enhance the New Jersey applicability of the AHS data, separate results from the AHS information is shown for the northeast United States.

No such macro database is available for the TODs. In the latter case, exploratory data are presented for ten New Jersey TODs. For the *Mount Laurel* housing, exploratory data are presented for approximately 40 developments in New Jersey that either exclusively contain *Mount Laurel* units or encompass both affordable and market-rate homes. The New Jersey 2000 PUMS is also examined to ascertain the demographic profile of low-and moderate-income households in this state.

#### NONRESIDENTIAL MULTIPLIERS

#### **Data Fields and Sources**

The nonresidential multiplier consists of the *number of employees per 1000 square feet of nonresidential space*. To be consistent, the nonresidential space is typically "gross floor area" (GFA), however, depending on source, other metrics may be shown such as "enclosed space," "business space," "total space," "selling space," and "per room" (for the hotel industry).

The nonresidential multipliers are presented according to the following categories.

Commercial

Office Retail Eating & Drinking

Industrial

Warehouse Manufacturing & Industry

Hospitality, Health, & Education Lodging Health Schools

There is no standard source for nonresidential multipliers and no distinct New Jersey base of information. Part Two assembles nonresidential multiplier data from many national sources, including as examples (see Part Two for a full listing):

- 1. U.S. Census Bureau- Census of Retail Trade (CRT). This source has national information for selected retail categories on the number of employees per retail total space and selling space. The current study taps the 1997 CRT, the last time the above information was presented.
- 2. Commercial Buildings Energy Consumption Survey (CBECS). CBECS is a national sample survey administered by the U.S. Department of Energy that collects energy-related building characteristics data and energy consumption and expenditure data for commercial buildings in the United States. Included in the CBECS is information on building area and number of employees. The current study utilizes the 2001 CBECS.
- 3. Institute of Transportation Engineers (ITE). 1991. TRIP Generation. 5<sup>th</sup> Ed. Besides trip generation figures, this publication contains selected national data on employees, by nonresidential space. The employee-space data was last contained in the 1991 (5<sup>th</sup>) *Trip Generation* edition
- 4. Nelson, Arthur. 2004. Planner's Estimating Guide. Projecting Land-Use and Facility Needs. American Planning Association. Among other useful information, this publication has data on national nonresidential multipliers.

Evident from the above is the diversity of sources and that all of the data are national as opposed to being specific to New Jersey. Further, the indicated national sources have considerably varying employment densities by type of use. Despite these shortcomings, the national nonresidential employee multipliers are informative for New Jersey application.

# ILLUSTRATIVE NEW JERSEY RESIDENTIAL AND NONRESIDENTIAL DEMOGRAPHIC MULTIPLIERS

Following the background presented above, it is opportune to examine in an illustrative fashion some of the data contained in Part Two.

How many persons and school children are found in a 2-bedroom townhouse (single-family attached unit) versus a 4-5 bedroom single-family detached (SFD) home in New Jersey that were newly built (1990 through 2000) as of 2000? Since no price is specified for these respective units nor specific geographic location, the analyst would use the statewide "all value" 2000 data for persons, school-age children, and public school children contained in tables II.A.1 through II.A.3 (see table I-5 guide) in Part Two and would ascertain the following:

Table I-6
Illustrative Overall Statewide Demographic Data for Townhouse and Detached Housing (2000)

Housing Category		
Location	State	State
Type	Townhouse	Single-Family detached (SFD)
Size (bedrooms)	2	4-5
Tenure	Own and rent	Own and rent
Price	All value	All value
Period	2000	2000
Overall Demographics		
Household size	1.997	3.774
School-age children	0.156	1.077
Public school children	0.126	0.872

Source: Tables II-A-1 through II-A-3

In other words, 100 of the 2-bedroom townhouses would generate on average about 200 persons of whom approximately 16 would be of school age, with 13 pupils attending the public schools. For the 4-5 bedroom single-family detached home, the 100 units would generate about 377 persons, of whom 108 would be of school age, 87 attending public schools.

Of the public school children counts from the 2000 census indicated above (table I-6), how many are likely to attend elementary (kindergarten-6<sup>th</sup> grade), junior high (7<sup>th</sup>-9<sup>th</sup> grades), and high school (10<sup>th</sup>-12<sup>th</sup> grades)? From table II-A-3 in Part Two (see table I-5 guide), the following statewide school and grade level multiplier data for public school children is available:

Table I-7
Illustrative Detailed (Public School Children) Statewide Demographic Data for Townhouse and Detached Housing (2000)

Housing Category				
Location	State	e	State	
Type	Townho	ouse	Single-family	detached
Size (bedrooms)	2		4-5	
Tenure	Own and	l rent	Own and	rent
Price	All value All valu		lue	
Year	2000		2000	
Detailed Demographics				
Public School Children	<u>Multiplier</u>	<u>%</u>	<u>Multiplier</u>	<u>%</u>
Elementary (K-6)	0.081	(64.3)	0.549	(62.3)
Junior High (7-9)	0.021	(16.7)	0.183	(21.0)
High School (10-12)	0.024 (19.0)		0.140	(16.7)
All	0.126	(100.0)	0.872	(100.0)

Source: Table II-A-3

Put another way, of the 13 public school children from the 100 2-bedroom townhouses, 8, 2, and 3 pupils would likely be found in elementary, junior high, and high school, respectively. For the 100 4-5 bedroom detached homes, generating 87 public school children, the pupil distribution for the three school categories can be expected to be 55, 18, and 14 students respectively.

What about the age distribution of all the persons generated by the townhouses versus the detached homes? From table II.A.1 in Part Two (see table I-5 guide), the following age-cohort information can be assembled:

Table I-8
Illustrative Detailed (Age Distribution) Statewide Demographic Data for Town House and Detached Housing (2000)

Housing Category					
Location	State		State	State	
Type	Townho	use	Single-family	detached	
Size (bedrooms)	2		4-5		
Tenure	Own and	rent	Own and	rent	
Price	All value		All value		
Year	2000		2000		
Detailed Demographics					
Age Distribution	<u>Multiplier</u>	<u>%</u>	<u>Multiplier</u>	<u>%</u>	
0-4	0.150	(7.5)	0.442	(11.7)	
5-17	0.156	(7.8)	1.077	(28.5)	
18-34	0.557	(28.0)	0.539	(14.3)	
35-44	0.366	(18.3)	0.998	(26.4)	

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45-54	0.265	(13.3)	0.492	(13.0)
55-64	0.220	(11.0)	0.146	(3.9)
65-74	0.186	(9.3)	0.063	(1.7)
75+	0.097	(4.9)	0.038	(1.0)
All	1.997	(100.0)	3.774	(100.0)

Source: Table II-A-1

From the above data, the analyst could estimate that of the 200 persons from the 100 2-bedroom townhouses, about 15 (200 x 0.075) would be four years of age or under, while of the 377 population from the 100 detached 4-5 bedroom homes, 44 persons (377 x 0.117) would fall into the youngest age cohort. The townhouses would contain relatively more persons of retirement age—65 years or older—than their detached counterparts. Of the 200 persons from 100 townhomes, 14.2 percent<sup>†</sup> or 28 persons would be expected to be at least 65 years old as against only 2.7 percent<sup>‡</sup> or 10 persons for the single-family detached homes values.

Knowledge of the housing units' price (all home values shown are as of 2006) can refine the selection of the appropriate statewide residential demographic multipliers from Part Two. If the 2-bedroom townhouses were priced above \$226,552, then as is evident from table II.A.1, the "above median" values for the state would be selected; below \$226,552, the "below median" 2-bedroom townhouse values would be most appropriate. For the 4-5 bedroom single-family detached home, units priced below \$576,679 would fall into the "below median" group while their counterparts priced above \$576,679 would fall into the "above median" category. Price may affect the demographic profile as the following illustration for the 2-bedroom townhouse example indicates. In this instance, the higher priced townhomes have fewer persons, school age, and public school children than their lower priced counterparts.

Table I-9
Illustrative Overall Statewide Demographic Data for Townhouses
Differentiated by Housing Value (2000)

Housing Category			
Location	Statewide	Statewide	Statewide
Туре	Townhouse	Townhouse	Townhouse
Size (bedrooms)	2	2	2
Tenure	Own & Rent	Own & Rent	Own & Rent
Price	All Values	Below Median Value	Above Median Value
Year	2000	2000	2000
Overall Demographics			
Household size	1.997	2.068	1.914
School-age children	0.156	0.206	0.096
Public school children	0.126	0.164	0.081

Source: Tables II-A-1 through II-A-3

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<sup>&</sup>lt;sup>†</sup> Combines 9.3 percent and 4.9 percent for the 65-74 and 75+ age cohorts respectively for the 2-bedroomm townhomes (see table II-A-1).

<sup>&</sup>lt;sup>‡</sup> Combines 1.7 and 1.0 percent for 65-74 and 75+ age cohorts respectively for the 4-bedroom single family detached homes (see table II-A-1).

For the multifamily homes (i.e. 5+ unit structures), information on price as well as tenure would guide the analyst as to which statewide multipliers to use in Part Two. Evident from the illustrative overall demographic figures shown in table I-10 is that the population yield is lower for owned more expensive 2-bedroom multifamily homes than for their rented less expensive counterparts

Table I-10
Illustrative Overall Statewide Demographic Data for Multifamily Units (2-bedroom)
Differentiated by Housing Tenure and Value (2000)

Housing Category				
Location	Statewide	Statewide	Statewide	Statewide
Type	Multifamily	Multifamily	Multifamily	Multifamily
Size	2 bedroom	2 bedroom	2 bedroom	2 bedroom
Tenure	Rent	Own	Rent	Own
Price	Above median	Above median	Below median	Below median
Year	2000	2000	2000	2000
Overall Demograph	nics			
Housing size	2.107	1.844	2.493	1.771
School-age	0.165	0.105	0.478	0.131
children				
Public school	0.115	0.092	0.432	0.101
children				
Price Year  Overall Demograph Housing size School-age children Public school	Above median 2000 vics 2.107 0.165	Above median 2000 1.844 0.105	Below median 2000 2.493 0.478	Below median 2000 1.771 0.131

Source: Tables II-A-1 through II-A-3

For the 0-1 bedroom multifamily homes, higher price remains associated with a lower population impact, however, in this instance, tenure has an opposite impact as it is the rental 0-1 bedroom homes which tend to contain relatively fewer persons, school-aged, and public school children (table I-11).

Table I-11
Illustrative Overall Statewide Demographic Data for Multifamily Units (0-1 Bedroom)
Differentiated by Housing Tenure and Value (2000)

Housing Category				
Location	Statewide	Statewide	Statewide	Statewide
Type	Multifamily	Multifamily	Multifamily	Multifamily
Size	0-1 bedroom	0-1 bedroom	0-1 bedroom	0-1 bedroom
Tenure	Rent	Own	Rent	Own
Price	Above median	Above median	Below median	Below median
Year	2000	2000	2000	2000
Overall Demographi	ics			_
Housing size	1.644	1.682	1.370	1.702
School-age	0.057	0.069	0.083	0.167
children				
Public school	0.051	0.051	0.069	0.167
children				
C TO 1.1 TT A 1.4	1 11 4 2			

Source: Tables II-A-1 through II-A-3

All of the above illustrations are as of 2000. (Housing units built 1990 through 2000 and monitored in 2000.) An analyst interested in the change in the New Jersey demographic multipliers between 1990 (housing units built 1980 through 1990 and monitored in 1990) and 2000 can readily obtain this information from the parallel contained in Part Two, tables II-A (2000) and II-B (1990), as is illustrated below for townhouse and single-family detached home examples.

Table I-12
Illustrative Overall Statewide Demographic Data for Townhouse and Detached Housing (1990 and 2000)

Housing Category				
Location	Statewic	de	Statewide	
Туре	Townho	use	Singe-fam	ily detached
Size (bedrooms)	2		3	
Tenure	Own &	Rent	Own & Re	ent
Price	Above r	nedian	Above me	dian
Year	1990	2000	1990	2000
Overall Demographics				
Household size	2.029	1.91	3.043	2.913
School-age children	0.069	0.096	0.547	0.510
Public school children	0.047	0.081	0.424	0.423

Source: Tables II-A-1 through II-A-3 and tables II-B-1 through II-B-3.

All of the above illustrations were for the state as a whole. Parallel information is available by region of New Jersey. How many persons and school children are found in a 2-3 bedroom townhouse of above median value in Bergen County versus Burlington County as of 2000? Since Bergen County is in northern New Jersey while Burlington is in southern New Jersey, the analyst would reference the multiplier data for these two regions (tables II.C and II.E respectively) and would determine the following.

Table I-13 Illustrative Overall Regional Demographic Data for 2-3 Bedroom Townhouse (2000)

Housing Category		
Location	Northern NJ	Southern NJ
Type	Townhouse	Townhouse
Size (bedrooms)	2-3	2-3
Tenure	Own and rent	Own and rent
Price	All value	All value
Year	2000	2000
Overall Demographics		
Household size	2.477	2.232
School-age children	0.296	0.317
Public school children	0.242	0.282
T 11 H C 1 d 1 H C 2	1/11 11 11 11 1	H E A

Source: Tables II-C-1 through II-C-3 and tables II-E-1 through II-E-3.

In other words, 100 of the above described townhouses in Bergen County would generate, on average, 248 persons, including 30 school-age children, 24 in public school. The same number of townhouses in Burlington County would contain a small number of people (223) but somewhat additional school-age children (32), and public school children (28).

For statistics on the household size, school-age children and public school children, multipliers, the analyst would reference the appropriate tables in Part Two as guided by table I-5. For instance, if the analyst wanted to quantify the 90 percent confidence interval for the public school children from the example just cited—a 2-3 bedroom townhouse located in either Bergen (northern New Jersey) or Burlington county (southern New Jersey)—then from table II-C-6 (Bergen County) and table II-E-6 (Burlington County), the following data would be ascertained.

Table I-14
Illustrative Statistics for Public School Children Multiplier for Different Regions in New Jersey (2000)

Housing Category		
Location	Northern New Jersey	Southern New Jersey
Type	Townhouse	Townhouse
Size (bedrooms)	2-3	2-3
Tenure	Own and rent	Own and rent
Price	All value	All value
Year	2000	2000
Demographics/Statistics		
Public School Children		
Average	0.242	0.282
90% confidence interval		
low	0.196	0.228
high	0.288	0.337

Source: Table II-C-6 and II-E-6.

In other words, in 9 times out of 10, the 100 2-3 bedroom townhouses in Bergen County would generate from 20 to 29 public school children while in Burlington County the same 100 townhouses would, at the same confidence band, contain from 23 to 34 public school children.

Much less detail is available in Part Two on the specialized housing types. In an exploratory fashion, though, we can distinguish the demographic impact of these specialized units from the average or "generally applicable" housing.

Take, for instance, the demographic impact of 100 average value 2-bedroom townhouses. As noted earlier (table I-6), on average for New Jersey these 2-bedroom townhouses will contain 1.997 persons of whom 0.126 will be public school children (PSC). These 100 townhouses would therefore be estimated to contain a population of about 200, approximately 13 of whom will be PSC.

What if these 100 townhomes were found in an age-restricted community? In this instance, the analyst would tap the specialized housing information found in Part Two, table II-F-1 and can ascertain the following household size data for "communities that are restricted to those 55+" in the Northeast United States: 1.57 for single-family detached units, 1.39 for single-family attached units, and 1.20 for multifamily homes. Given the above, the 100 age-restricted townhomes would be estimated to contain about 139 persons and no public school children. These figures are less than the 200 person SAC figure with 13 PSC estimated for the non-age restricted 100 unit townhouse example described above because the age-restricted homes are "specialized" and will contain smaller size households and by definition no school children.

What if the 100 townhouses were contained in a transit oriented development (TOD), another specialized housing type? In this instance, the analyst would turn to Part Two, table II-G-1 and could reference the exploratory data shown there. That section indicates an average of 0.02 public school children for TOD units, suggesting that the 100 townhomes in the TOD would yield only 2 public school children—considerably lower than the 13 estimated PSC for the "general application" townhouses. That lower figure reflects the household self-selection described earlier, namely that TODs disproportionately attract both empty nester and younger households who are typically childless.

What if the 100 two-bedroom townhomes were affordable *Mount Laurel* dwellings? Only limited data is available for this specialized housing type, however, from Part Two, table II-H-1, the analyst could ascertain that the 100 affordable 2-bedroom *Mount Laurel* townhouses would generate about 209 persons, including 32 public school children. These figures, albeit exploratory, are higher than the demographic yield from the examples cited above for both the general application and other specialized housing types (e.g. TODs) and reflect a somewhat different demographic profile for income-constrained households.

Mount Laurel housing is often built with market-rate housing in an inclusionary arrangement. The demographic data in this study can be used to estimate the demographic impact from such inclusionary developments. To illustrate, how many public school children can be anticipated from a 100 unit inclusionary housing development in New Jersey (88 market-priced homes and 12 affordable homes) of for-sale condominiums in 5+ unit structures? The answer as indicated below (table I-15) is 19 public school children, approximately 3 coming from the affordable homes.

Table I-15
Illustrative Detailed (Public School Children) Demographic Impact From a 100 Unit Inclusionary Housing Development (For-sale homes in 5+ unit structures)

inclusionary Housing Development (For-sale nomes in 5+ unit structures)						
Housing Type/Size	Number of	Number of Public School				
	Housing Units	Children per Unit	School Children			
5+ Units Own						
Market Housing <sup>a</sup>						
2-bedroom	44	.09	3.96			
3-bedroom	44	.28	12.32			
Subtotal	88		16.28			
Affordable Housing						
1-bedroom	3	.06	0.18			
2-bedroom	6	.18	1.08			
3-bedroom	3	.54	1.62			
Subtotal	12	-	2.88			
Project total	100		19.16, say 19			
0						

<sup>&</sup>lt;sup>a</sup> Above median value.

Source: Tables II-A-3 and II-H-1.

What if the 100 unit inclusionary housing development consisted of rental homes in 5+ unit structures? In that instance, the development would be expected to generate 38 public school children, 8 from the affordable homes, as is shown in table I-16.

Table I-16
Illustrative Detailed (Public School Children) Demographic Impact From a 100 Unit Inclusionary Housing Development (Rental homes in 5+ unit structures)

Housing Type/Size	Number of	Public School	Expected Public
	Housing Units	Children per Unit	School Children
5+ Units Rent			
Market Housing <sup>a</sup>			
2-bedroom	44	.12	5.28
3-bedroom	44	.56	24.64
Subtotal	88		29.92
Affordable Housing			
1-bedroom	3	.14	0.42
2-bedroom	6	.62	3.72
3-bedroom	3	1.27	3.81
Subtotal	12	<del>-</del>	7.95
Project total	100		37.87, say 38

<sup>&</sup>lt;sup>a</sup> Above median value.

Source: Tables II-A-3 and II-H-1.

It is important to reiterate that the specialized housing information is exploratory and that much more case study work must be done to improve our understanding of the demographic impact of the age-restricted, TOD, and Mount Laurel units, as well as other specialized homes (e.g. vacation) for which no demographic information is available.

We conclude this illustrative section with the nonresidential multipliers. These are the average number of employees per 1,000 square feet of nonresidential space and table II-I-2 in Part Two assembles the available data on this subject. How many workers can be anticipated from a 100,000 square foot retail facility? As table II-I-2 indicates that the nonresidential multiplier for this business use is roughly between 1 and 2, the 100,000 square foot retail establishment could be expected to contain 100 to 200 workers. Yet, as is readily evident from table II-H-2 there is far from unanimity concerning the worker density for retail (and other uses) so nonresidential multipliers, as the specialized housing data, must be viewed as exploratory.

All of the residential and nonresidential information illustrated in this section clearly is of interest to planners, educators and other public officials, as well as the New Jersey public at large. The Part Two tables thus provide a handy and pertinent reference as to who lives in New Jersey housing and how many workers are found in different types of nonresidential land uses in this state. That resource is the basis for numerous interrelated analytic applications.

#### **DEMOGRAPHIC MULTIPLIERS: APPLICATION**

In some instances, information on a development's population is required by local statue. For example, applicants for residential subdivisions of above a given size may be required by local New Jersey statute to project both the number of people and school children that will be added locally. In parallel, when a larger nonresidential development is proposed, a workforce count is sometimes required. These projections are readily accomplished by referring to the appropriate residential and nonresidential multipliers.

Underlying the analyses noted above, is a desire to identify development consequences. The process for accomplishing this, termed development impact analysis, is one of the major users of demographic multiplier data as is described shortly. A second, related application, is to anticipate the public employment needed to service future growth. A third, related usage is the identification of development standards, whereby infrastructure requirements of new growth are linked to the development-introduced population—the latter identified by the demographic multipliers. A fourth, again related, application is the formulation of development charges, such as impact fees, where infrastructure costs are charged to new development proportional to the development's need for additional capital facilities. Capital needs are related to the residential and nonresidential population generated by growth—a figure determined through the use of multipliers. Finally, there are a number of emerging applications of multipliers ranging from school districts conducting enrollment projections to planners examining the "costs of sprawl." Each of these numerous broad areas where multipliers are commonly applied is discussed below.

#### **Development Impact Analysis and Demographic Multipliers**

Development impact analysis is the process of estimating and reporting the effects of residential and nonresidential construction on a host political subdivision, usually a local community, school district, special district, and/or county (Burchell, Listokin, and Dolphin 1994). The analysis may be requested by a state, county, or locality as part of the land-use review process; or it may be volunteered by a developer applicant in conjunction with the process. Increasingly, however, development impact assessment is changing from an optional to a required element.

The effects considered by development impact assessment take several forms: physical, market, environmental, fiscal, economic, traffic, and social. Many of these development impact components either begin with, or in other ways significantly involve, the use of demographic multipliers.

Fiscal impact analysis<sup>13</sup> is illustrative. This assessment compares the public costs and public revenues associated with residential and/or nonresidential growth (Burchell and Listokin 1978). If costs exceed revenues, a deficit is incurred; if revenues exceed expenditures, a surplus is generated.<sup>14</sup> There are different techniques for conducting a fiscal-impact assessment such as the per capita, case study, comparable community, and econometric methods. All, however, begin with the determination of the population generated by growth—people, pupils, and employees—an analysis that depends on the demographic multipliers.

For instance, assume a mixed-use development of expensive 400 residential units (evenly divided between 200 3-bedroom, \$600,000 single-family detached homes and 200 3-bedroom, \$400,000 townhouses) and 100,000 square feet of office space is proposed. At a 2000 New Jersey average household size multiplier of 2.913 for the above median price 3-bedroom

Hopefully the multipliers considered in the current study will address some of the erroneous assumptions and misconceptions that underlie the above described "ratables chase." First, housing, especially attached units, provides far fewer residents and especially public school children than is commonly assumed. Second, even if certain housing produces a high demographic yield and results in a fiscal deficit, that shortfall may not be very significant in a community-wide perspective and/or the shortfall can be offset by other fiscally positive development in the community, both residential as well as nonresidential. *More fundamentally, zoning should not be driven by demographics and fiscal impact.* The *Mount Laurel* mandate in New Jersey requires communities to shoulder a measure of the region's housing need and even in the absence of *Mount Laurel*, smart growth exemplifies the imperative of communities providing for a range of housing and a variety of land uses.

<sup>&</sup>lt;sup>13</sup> A fiscal impact analysis may be required of New Jersey developers. The fiscal consequences of growth may more generally be considered by New Jersey communities planning their future. Ideally, fiscal effects would be only one of many evaluative criteria; others include environmental sustainability, quality design, satisfying affordable housing needs, and considering traffic, and numerous other development impacts.

<sup>&</sup>lt;sup>14</sup> The fiscal impact of growth in a given community is best viewed on a comprehensive scale that includes all or much of future anticipated development as opposed to only considering one component of the larger picture. It is in this macro view that land uses should be considered. Communities in New Jersey as well as the nation have sometimes "overzoned" for nonresidential development while they have "underzoned" for housing, especially attached units in general and affordable housing in particular.

single-family detached units<sup>15</sup> (each with 0.423 public school children) (Part Two, table II-A-1 and table II-A-3 above median multipliers) and 2.444 for the townhouses<sup>16</sup> (each with 0.244 public school children) while the nonresidential multiplier suggested in Part Two, table II-I-2 is 3 employees per 1,000 square feet of office space, then the analyst would project a development-induced population of 1,072 people, 134 public school children, and 300 office workers (table I-15).

Of the 1,072 people, 583 would come from the 200 single-family detached homes (200 x 2.913 persons each) and 489 from the townhouses (200 x 2.444 persons each). Of the 134 public school children, the larger share, 85 students would be found in the detached homes (200 x 0.423 apiece) with the remaining 49 pupils in the townhouses (200 x .244 apiece).

The respective fiscal impact techniques would then assign public service costs to this incoming population. The per capita method is illustrative. If annual average local service costs are \$1,000 per resident, \$10,000 per pupil, and \$300 per worker, then in the mixed-use development example cited above, the 1,072 new residents would be projected by the per capita method to induce municipal outlays of \$1,072,000 (1,072 persons x \$1,000); the 300 workers would generate municipal costs of \$90,000 (300 workers x \$300); and the 134 pupils would demand educational expenses of \$1,340,000 (134 pupils x \$10,000). The total annual public service costs, would, therefore, amount to \$2,502,000 (\$1,072,000 + \$90,000 + \$1,340,000; see table I-15).

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<sup>&</sup>lt;sup>15</sup> Selling above the median \$267,444 as of 2006.

<sup>&</sup>lt;sup>16</sup> Selling above \$267,444 per unit as of 2006.

**TABLE I-15 Applying Demographic Multipliers to** Project the Population and Public Costs from a Mixed-Use Project Example

			pulation (p 1,000 squa		Project-	Generated I	Population <sup>2</sup>	Public S	Service Costs Populatio		Proj	ect-Generated (	Cost <sup>3</sup>	
Development Composition	Number of Units / square feet	People <sup>1</sup>	Public School Pupils <sup>1</sup>	Employees	People	Public Pupils	Employees	People	Public School Pupils	Employees	People	Public School Pupils	Employees	Total
Residential												•		
Single-Family														
Detached														
Three-	200 units	2.913	0.423	NA	583	85	NA	\$1,000	\$10,000	NA	\$583,000	\$850,000	NA	\$1,433,000
Bedroom														
Single Family														
Attached														
Three-	200 units	2.444	0.244	NA	489	49	NA	\$1,000	\$10,000	NA	\$489,000	\$490,000	NA	\$979,000
Bedroom														
Nonresidential														
Office	100,000 ft <sup>2</sup>	NA	NA	3.0	NA	NA	300	NA	NA	\$300	NA	NA	\$90,000	\$90,000
Total	_	_	_	_	1,072	134	300				\$1,072,000	\$1,340,000	\$90,000	\$2,502,000

Notes:

NA = Not applicable.

<sup>&</sup>lt;sup>1</sup>Derived from the demographic multipliers for household size and public school children in tables II-A-1 and I-A-3 in Part Two.

<sup>&</sup>lt;sup>2</sup>Equals number of units/square feet multiplied by the respective population/employee profiles.
<sup>3</sup>Equals the number of project-generated population multiplied by the public service costs per population unit.

These costs would then be compared to revenues, some of which are population based. For instance, if there is an annual "head" tax of \$200 per resident and \$100 per worker, then in the example noted above, the revenue from the head tax would amount to \$214,400 from the development's incoming 1,072 population (1,072 x \$200) and \$30,000 from its added 300 workforce (300 x \$100) for a total head tax income of \$244,400. If state aid amounted to \$5,000 per pupil, then the 134 public school children introduced by the mixed use project would garner \$670,000 in state school support (\$5,000 x 134). In specifying public costs and revenues, fiscal impact analysis thus incorporates many population-related calculations, and these, in turn are based on applying the residential and nonresidential multipliers.

The same is true with respect to many of the other substantive elements of development impact analysis. For example, market analysis often utilizes demographic multipliers. A market study of the office component of the mixed-use project example presented earlier could proceed as follows. The market area for the office space would first be identified, for instance, a two-county region surrounding the project. Next, employment growth would be projected for this region over the near future, say 1,000 office-related jobs. The latter is then translated into demand for physical office space of a given magnitude—a conversion enabled by the nonresidential demographic multipliers. If the multiplier is 3 workers per 1,000 square feet of office space (or 333 square feet of office space per office employee), then the 1,000 additional employees in the two-county market area would therefore necessitate demand for 333,000 square feet of office space. If 200,000 square feet of office development is forthcoming in the market area from projects already approved or started, that would leave a net need for 133,000 square feet of office space. This net need suggests adequate support for the 100,000 square feet of office space in the contemplated mixed-use project.

In short, knowing how much space each worker needs is key to identifying total space demand in a market analysis. Determination of the space need per worker, in turn, is available from the nonresidential demographic multipliers contained in Part Two, table II-H-2 of this study.

Development impact also considers demands placed on water, sewer, solid waste, and other utility systems. Again, this is calculated by projecting the population and work force from growth via the residential and nonresidential multipliers, and then relating these population and employee tallies to standards of gallons per day of water needed per resident and per employee, tons of solid waste generated by people and workers, and so on. Thus, many areas of development impact assessment build on a projection of population and work force and these projections are based on the residential and nonresidential multipliers.

#### **Projecting Demand for Public Employees and Demographic Multipliers**

Many public jurisdictions in New Jersey relate their public staffing requirements at least in part, to the size of the population being served. Examples include teacher-student ratios and the number of police needed per 1,000 population. As the demographic multipliers provide a basis for calculating the population introduced by development, they are invaluable for anticipating the public employee demands from growth. That information can guide future public hiring needs as well as inform fiscal impact, development impact, and other calculations.

To facilitate that application in New Jersey, table I-16, based on the 2002 *Census of Government* for this state, presents the average number of public service (municipal and school) workers in New Jersey per 1,000 local service population (persons for municipalities and pupils for school districts). Since local public service employment may vary by the population scale of the local jurisdiction, table I-16 differentiates its figures accordingly.

For example, the number of fire protection employees is 0.09 per 1,000 population for communities 1,000 to 2,499 in size and rises fairly steadily to over 1.20 per 1,000 population for the largest municipal size categories (100,000 or more persons). In other instances (e.g. financial administration) there is an opposite pattern as the number of workers per 1,000 population falls steadily with community size, perhaps due to economies of scale. There is a "U" shaped curve for yet other public services in that the employment level per 1,000 population starts high for the smallest size communities (since basic services have to be provided regardless of the population base), then drops for mid-size communities (as efficiencies of scale are reached), and finally upturns for the largest communities (because of need or possibly reduced economy from large scale). For example, the number of police per 1,000 population is 2.83 for the 1,000 to 2,499 community size group, then drops to a low of 1.32 per 1,000 population for the 50,000 to 99,999 size category, yet increases to about 2.00 per 1,000 population for communities of 100,000 or more. Besides these staffing ratios by individual municipal service functions, table I-16 aggregates the total municipal workers per 1,000 service population. For instance, it is 20.35 municipal employees for communities 1,000 to 2,499 in size.

Table I-16 also presents the average number of public education workers per 1,000 students for different size school districts. For instance, that education staffing figure is 158 for school districts less than 1,200 pupils (122 workers for instruction and 36 employees for other education services).

Table I-16 can be used to estimate the number of public employees that will be needed to service the population introduced by development—the latter itself determined from the residential demographic multipliers. To illustrate, for the mixed-use case study detailed earlier, a development-induced population of 1,072, including 134 public school children was projected. If the case study development were located in a community 1,000 to 2,499 in total population with a school district of under 1,200 pupils, then the analyst would project development-induced municipal hiring of 21.8 workers (1.072 [1,072 in 000's of population] X 20.35 [the total municipal workers per 1,000 population for 1,000 to 2,499 size municipalities]) and the addition of 21.2 school workers (0.134 [134 pupils expressed in 000s] X 158 [the total educational staffing per 1,000 pupils for districts of less than 1,200 pupils]).

Exhibit I-16
Full Time New Jersey Public Employees Per 1,000 Population And Pupils For Municipal and School District Services
By Municipality/School District Size

Municipal Population Size (Number of Residents)	Less than 2,500	2,500 to 4,999	5,000 to 9,999	10,000 to 24,999	25,000 to 49,999	50,000 to 99,999	100,000 to 199,999	200,000 to 299,999	Total
MUNICIPAL FUNCTIONS									
GENERAL GOVERNMENT									
Financial Administration	2.94	0.71	0.51	0.39	0.34	0.23	0.27	0.26	0.88
General Control	6.33	1.09	0.85	0.73	0.84	0.68	0.97	2.99	1.78
PUBLIC SAFETY									
Police Protection	2.83	2.46	2.28	1.85	1.88	1.32	1.92	1.75	2.18
Fire Protection	0.09	0.12	0.13	0.28	0.50	0.48	1.27	1.23	0.24
PUBLIC WORKS									
Highways/Transit	3.12	0.96	1.00	0.78	0.49	0.46	0.37	0.29	1.19
Sanitation	1.58	0.60	0.25	0.35	0.35	0.12	0.26	0.28	0.56
Water Supply/Sewerage	2.44	0.43	0.29	0.39	0.34	0.30	0.08	0.19	0.70
Utilities	0.19	0.01	0.00	0.01	0.00	0.09	-	-	0.04
HEALTH, RECREATION AND CULTUI	RE								
Parks & Recreation	0.59	0.26	0.20	0.27	0.39	0.33	0.40	0.18	0.32
Libraries	0.05	0.09	0.28	0.31	0.28	0.21	0.52	0.65	0.22
Health and Welfare	0.19	0.10	0.08	0.16	0.20	0.20	0.50	0.22	0.15
TOTAL	20.35	6.84	5.87	5.52	5.60	4.42	6.56	8.04	8.26
School District	I agg 4h ag	1,200	3,000						
Enrollment (Number of Students)	Less than 1,200	to 2,999	or more	Total					
SCHOOL DISTRICT FUNCTIONS	1,200	2,777	more	1 Otal					
Instruction	122	108	113	117					
All Other School Functions	36	38	40	37					
Total	158	146	153	154					

Source U.S. Census of Governments, 2002

#### Formulating Development Standards and Demographic Multipliers

It stands to reason that development standards such as street width, sidewalk dimensions, parking spaces, and drainage and water-system improvements should be related to the specific needs posed by growth. In reality, this has not been the case. Many subdivision and site plan requirements have been criticized as being excessive; street widths were too wide, utility specifications were overly generous, and so on. In response, the National Association of Home Builders (NAHB), Urban Land Institute (ULI), Institute for Transportation Engineers (ITE) American Planning Association (APA), American Society of Civil Engineers (ASCE) and Rutgers University, among others, developed "model development requirements" (Brough 1985; Bucks Country 1973; Freilich and Levi 1975; ULI, NAHB, and ASCE 1976).

Underlying these "model" standards is an attempt to derive "rationally based" requirements—regulations that would be based on need. The determination of need is linked to the demands posed by the size of the population and work force that will be introduced by residential and nonresidential development, respectively; in turn, this count is based on the residential and nonresidential multipliers. Thus, the reform of subdivision and site plan standards has built on the knowledge of demographic multipliers.

For example, the Rutgers model subdivision ordinance (Listokin and Walker 1989) establishes from engineering studies that water consumption is: a) 100 gallons per day (gpd) for each person in a single-family detached home; b) 75 gpd per capita in an attached unit; and c. 25 gpd for each office worker. Based on these standards, the mixed-use development example would generate a water need of 102,475 gpd. That figure encompasses 58,300 gpd from the 583 people in the detached homes, each person consuming 100 gpd; 36,675 gpd from the 489 people in the attached units, each person utilizing 75 gpd; and 7,500 gpd from the 300 office workers, each needing 25 gpd. Much of the data developed in the Rutgers model subdivision ordinance has been incorporated in the New Jersey Residential Site Plan Standards (RSIS). The above figures might be less in an infill context. As household size is probably lower in infill, so too in tandem will the demand for water capacity.

Demographic multipliers are similarly applied by Rutgers in developing other subdivision and site plan specifications for sewage treatment infrastructure, parking requirements, and the like. The utilization of demographic information similarly characterizes the work by NAHB, ULI, APA, and others in their respective formulations of model subdivision and site plan standards. Thus, an important application of demographic multipliers is the on-going work of determining development infrastructure requirements based on need.

#### **Calculating Impact Fees and Demographic Multipliers**

Capital improvements, such as street, utility, and drainage systems, were historically provided by government and paid for by all taxpayers. In recent years, however, there has been some shift so that more of the infrastructure is provided by and paid for privately by developers and the consumers of housing and commercial space. One means of accomplishing this is through the imposition of exactions. Whether termed "impact fees," "proffers," "off-site contributions," "developer agreements," or other nomenclature, these generic charges all refer to exactions

placed on new growth to fund a proportionate share of attendant infrastructure costs. These charges are prevalent in such sunbelt states as California, Florida, Virginia and Colorado, and are circumscribed in New Jersey (by the Municipal Land Use Law) and other jurisdictions.

There are many legal, economic, equity, and other issues involved with respect to development exactions. One of the most challenging and basic is the determination of the "rational nexus" between growth and attendant capital improvements. Rational nexus refers to the linkage between development and infrastructure—that a given measure of growth requires a specific increment of capital improvements and spending. An exaction on growth should be proportional to its effect on infrastructure.

In the formulation of impact fees and similar charges, rational nexus and the underlying concept of proportional charges, is often operationally estimated through reference to the residential and nonresidential multipliers. Since capital improvements are related to the demands posed by population and employees, development that introduces more persons and a larger workforce necessitates greater amounts of infrastructure and is charged more while development that is not as population and worker-intensive is charged less. In turn, the specification of persons and workers by development type is identified by the residential and nonresidential multipliers respectively.

This relationship is illustrated in the mixed-use example. It was previously calculated that the 400 residential units (200 single-family detached homes and 200 townhouses) in this project would generate 1,072 people and 134 public school children (583 people and 85 pupils in the detached homes and 489 people and 49 public school children in the townhouses—see table I-15). The 100,000 square feet of office space houses 300 workers.

We will further assume that local analysis shows that the infrastructure costs (not the average per capita costs) in the host community are \$1,500 per capita and \$750 per worker for municipal purposes, and \$12,000 per pupil for schools. The 200 single-family detached homes would therefore generate a need for \$874,500 in municipal infrastructure (583 persons x \$1,500) and \$1,608,000 for schools (134 students x \$12,000) for a total of \$2,482,500. The rational nexus impact fee for each of the 200 single-family units—absent any credits for the taxes and other local fiscal benefits from these units, *credits that must be added*—would therefore be \$12,413 (\$2,482,500  $\div$  200). The 100,000 square feet of office space, housing 300 workers, would indicate a need of \$225,000 in infrastructure (300 workers x \$750)—suggesting an impact fee of \$2,250 per 1,000 square feet of such space (again, absent any offsetting credits). While the above example is oversimplified, and New Jersey communities can not currently impose impact fees for schools, at the heart of the determination of rational nexus impact fees is the application of demographic multipliers as described above.

#### **School Enrollment Projections and Demographic Multipliers**

One emerging application of demographic multiplier involves school enrollment analyses. Such studies are routinely conducted by school districts across the United States and typically project school enrollment by grade (kindergarten through 12th grade or K–12) into the near future—

usually for five years from the most current school year. The enrollment studies are implemented to estimate both future staffing and infrastructure needs.

School enrollment projections are usually done following two methodologies termed "cohort survival" or a "demographic approach." The former has traditionally been almost universally applied while the latter is an emerging application with numerous advantages that shall be detailed shortly. In cohort survival, the historical relationship between the number of students by grade (K–12) from year to the next over the recent past, typically for the last five school years, is determined from enrollment records. This relationship is expressed as a "cohort survival ratio," and the historical ratio is then applied into the future to project the next five years' enrollment. A ratio between births in a given community (lagged 5 years) and the students entering kindergarten in that community is established as well and also applied in the analysis to predict the size of the entering kindergarten (k) class. A K-1 (kindergarten to first grade) ratio then ages the kindergarten cohort into the school system.

The cohort survival technique is commonly applied because of its mathematical simplicity and logical appeal that "the future will mirror the past." The latter, however, is a major drawback because cohort survival is an accurate gauge only to the extent that future patterns in the school district will mirror the historical record (i.e., that the level of new growth will be similar). Another drawback is that the cohort survival approach does not deal directly with the impacts of growth in the sense of examining how many school children are generated per new housing unit.

These drawbacks are addressed by an alternative to the cohort survival technique—a demographic analysis of school enrollment. This combines two items of information: 1) an estimate of the future five years of residential development by type and size of housing unit and 2) identification of the average school children found in these different housing units—in other words their demographic multipliers. Applying the future growth by year (numbers of given type/size housing units) against the appropriate demographic multipliers generates the new school children that will be added by growth and these, together with the underlying trend of existing school enrollment (i.e., the cohort survival that is not related to growth that is separately tracked by the demographic approach), yields the future school enrollment via a demographic technique.

The demographic approach monitors other factors affecting future school enrollment. For instance, it identifies from the residential multipliers the number of pre-school age children introduced by growth and these are cued to enter the school system (and hence the school enrollment projection) as they become of school age. Thus, if 10 single-family detached, three bedroom housing units built in 2000 have about three pre-school-age children four years of age, or under (applying the New Jersey general application average value multipliers contained in Part Two, table II-A-1), then these three children will be counted as entering kindergarten in 2001-2005 assuming that in the district in question kindergarten starts at age five.

While the cohort survival technique predominates in use by school districts, its shortcomings are being recognized and in its place is the demographic approach described above. The latter methodology directly incorporates the pupil demographic multipliers and represents an emerging application of multiplier data.

#### **Traffic Impact Studies and Demographic Multipliers**

Yet another emerging application of demographic multiplier involves traffic impact analysis. A traffic impact study is often required in subdivision and site plan review, rezoning applications, and the like. In these contexts, a traffic impact is conducted for such reasons as enabling responsible agencies to consider the effects on the local transportation system and to relatedly examine whether capacity improvements will be needed along streets or at critical intersections.

An important component of traffic impact analysis is the projection of the number of trips that will be generated by a development. It is in this context that demographic multipliers may be incorporated into the analysis. That application is detailed below.

Most traffic impact studies use trip generation data published by the Institute of Transportation Engineers (ITE). ITE compiles the results of trip generation studies conducted by transportation professionals across the country in its publication *Trip Generation*. *Trip Generation* presents trip data in such forms as a rate, such as a certain number of trips per dwelling unit or a stated frequency of trips per 1,000 square feet of gross leasable area, or trips per unit of population (persons or employees).

Demographic multipliers can be applied in utilizing and refining these trip generation rates. For instance, an earlier edition (5<sup>th</sup> edition, published 1991) Trip Generation indicates a weekday trip generation of 9.55 for single-family detached houses, 6.47 for rental apartments, and 5.86 for (owned) townhouses and condominiums (garden). Trip Generation further presents "adjustment factors" based on the household size and other characteristics of these units, such as the vehicles owned. These adjustments are shown in table I-17. To illustrate, the trip generation rate for a single-family detached home with a "smaller" household size (three or fewer members) would be reduced while that of a townhouse would be increased if it had a "larger" household size (two or more members). In turn, knowledge of the household size in the different residential units would be forthcoming from the demographic multipliers. Thus, according to the New Jersey statewide data for average value homes (Part Two, table II-A-2), the ITE trip generation figure would be reduced for 2-and 3-bedroom single-family detached homes in New Jersey while the ITE figures would be increased for 3 bedroom townhouses. Place sensitivity should also be considered, such as townhouses in a transit oriented development generating fewer relative trips as the townhouse's residents in the TOD will more often take transit as opposed to relying on their automobiles.

Demographic multipliers can be incorporated in other traffic projections. *Trip Generation* sometimes gives trip statistics that are directly related to population, such as reporting the trip yield per person or per worker. Since the demographic multipliers provide data on population, they are invaluable in the application of trip generation calculations that are population-based.

In short, traffic impact analysis has become increasingly sensitive to the variations in trip generation by such characteristics as population intensity (e.g., numbers of people in a housing unit and workers in nonresidential uses) and other characteristics (e.g., automobile ownership). The incorporation in traffic impact analysis of demographic and related data represents yet another emerging application of demographic multipliers.

## TABLE I-17 ITE Trip Generation Adjustment Factors by Housing Type

	Housing Type						
<b>Housing Unit</b>	Single-Family	Rental	Owned				
Characteristic	Detached	Apartment	Condominiums/Townhouses				
Household Size Adjustment Factors							
1–2	-3.4	-1.0	-0.07				
2–3	-1.8	+0.9	+0.04				
> 3	0.0	+2.8	+0.15				
Vehicles Owned							
0–1	-1.5	-0.3	-1.7				
1–2	0.0	+0.2	0.0				
>2	+2.9	+0.4	+3.6				

Source: Institute of Transportation Engineers. 1991. Trip Generation. Washington, D.C.: ITE.

Adjustment factor to be added (or subtracted) from the weekday vehicle trip generation rate per dwelling unit. These are 9.55 for the single-family detached homes, 6.47 for the rental apartments, and 5.86 for the condominiums/ townhouses.

*Note:* The most current (2001) *Trip Generation* does not contain these adjustment factors.

#### **Cost of Sprawl Studies and Demographic Multipliers**

A recent use of demographic multipliers is found in "cost of sprawl studies." These investigations analyze the environmental, economic, fiscal, social, and other characteristics of the traditional pattern of growth in the United States (termed "sprawl") versus more concentrated growth capitalizing on available infrastructure capacity in older urban, suburban, and rural centers (termed "smart growth").

A land consumption model is a central component of the cost of sprawl studies (Burchell 2002; 2000; 1999; 1997a; 1997b; 1995). This model allows a future projection of households and jobs to be converted to the demand for residential and nonresidential structures and ultimately to the demand or consumption of land for the residential and nonresidential purposes respectively.

Demographic multipliers are an integral component of the land consumption model incorporated in the cost of sprawl analyses. To illustrate, assume that an employment projection in the two counties encompassing the "region" of the mixed-use project example cited earlier shows a future (2005–2010) employment growth of 1,000 office workers and 1,500 retail workers. A land consumption model applied to this region and focusing on the land needs of the area's nonresidential growth between 2005 and 2010 would proceed as follows. The job growth by type would first be translated to physical development space demand by applying the nonresidential multipliers. This is a variation of the market analysis described earlier. Thus, if the multipliers in a given location are 3 workers per 1,000 square feet of office space (or 333 square feet of office space per office employee) and 2.0 workers per 1,000 square feet of retail space (or 500 square feet of retail space per retail employees)—parameters supported by the data from Part Two, table II-I-1 of this study-- then the 1,000 increase in office employment results in demand for 333,000 square feet of office space (1,000 x 333) and the 1,500 increase in retail employment results in demand for 750,000 square feet of retail space (1,500 x 500). It is assumed that the above

employment growth figures and attendant space needs are the same for both sprawl and smart growth.

The sprawl and smart growth patterns differ, however, in their relative utilization of land per given increment of development and this relationship, expressed in terms of a floor to area ratio (FAR), is incorporated in the land consumption model. FARs are lower for office versus retail space and for both land uses are lower for sprawl versus smart growth (table I-18).

Table I-18
Illustrative FARs Under Sprawl and Smart Growth

Type of Land Use	Development Scenario FARs					
	Sprawl	Smart Growth				
Office	.20	.22				
Retail	.25	.27				

Under the sprawl scenario, the 2005–2010 office space development in the two counties encompassing the mixed-use development's region will consume 1,665,000 square feet of land (333,000 ft<sup>2</sup> of office space ÷ .20 FAR) while the five years of retail development in the region will require 3,000,000 square feet of land (750,000 ft<sup>2</sup> of retail space ÷ .25 FAR) for a total of 4,665,000 square feet of land. At 43,560 square feet per acre, the 4,665,000 total square feet of land consumed under sprawl translates into 107.1 acres utilized.

Under smart growth, 1,513,636 square feet of land for office space would be consumed (333,000  $\rm ft^2$  of office space  $\div$  .22 FAR) and 2,777,778 square feet of land for retail needs (750,000  $\rm ft^2$  of retail space  $\div$  .27 FAR) for a total of 4,291,414 square feet of land or 98.5 acres (4,291,414  $\div$  43,560). Thus, the land consumption model shows smart growth to be more land efficient, utilizing about 10 percent fewer acres (107.1 versus 98.5 acres) in the mixed-use two county region example.

In short, the land consumption model is a powerful analytical tool incorporated in the cost of sprawl studies. Nonresidential multipliers are one item of data essential for "running" the land consumption model as described above.

Residential multipliers are used in the cost of government services (COGS) studies conducted by the American Farmland Trust and others. These studies purport to show that preserving land is superior fiscally to development and en route that conclusion, the COGS investigations tap residential multipliers to document the expenses involved in residential growth to the host community.

The principal author of this monograph was involved in a variation of the COGS in Allamuchy Township, New Jersey. Two alternative development scenarios for this community were examined. The first, termed the "residential development" option, assumed full development as currently zoned between 2000 and 2030. The second 2000-2030 scenario assumed that major land parcels are purchased by the community and kept as open space. The latter option, termed the "open space purchase" scenario, included development, but at a much reduced scale.

The analysis found that at buildout, the residential development scenario would add approximately 3,292 persons, including 445 school children in kindergarten through 12<sup>th</sup> grade (K-12). The open space purchase scenario would generate far fewer new residents—842 persons and 179 K-12 school-age pupils. These population figures were derived by utilizing demographic multipliers. The investigation then translated the development-induced population into municipal and school costs, projected the public revenues contributed by growth, and finally calculated the net fiscal impact of the two alternative development scenarios. It found that the open space purchase scenario produced an overall annual fiscal deficit (because land purchases were expensive in Allamuchy). The open space scenario, however, was relatively fiscally superior, because the residential development scenario at buildout yielded a slightly larger fiscal deficit. Such analysis, which informs preservation versus development policy decisions, relies on residential multipliers, amongst other data.

#### REFINING AND TESTING THE MULTIPLIERS

As is evident from the discussion in the previous section, the multipliers presented in Part Two of this study provide invaluable data for a variety of crucial analyses. Yet multipliers are a moving target and it is incumbent to continue to refine and test the assembled information.

Multipliers need to be updated. When the next decennial census is completed in 2010, the general application residential multipliers that were derived from the PUMS should be recalculated. Updating is important for conditions may change over time. The "baby boom echo"—the children of the baby boom generation will likely have a different demographic profile than their parents and the "echo" generation's children may differ once again. There is also a changing nonresidential environment. Take, for instance, the nonresidential multipliers for office space. Growing telecommuting, downsizing, outsourcing, shared work arrangements, and other forces may very well alter the number of employees per 1,000 square feet of such space in the future.

Beyond the issue of dating, multipliers continuously need to be refined. That is especially the case for the specialized housing and nonresidential categories. As noted, the data presented for the age-restricted, transit oriented, and *Mount Laurel* units in the current investigation is exploratory and surely does not provide information for all specialized housing types, such as vacation homes. The same can be said for the employee density information. The data on the number of employee per 1,000 square feet of nonresidential space is often inconsistent across sources and covers only major but surely not all categories of nonresidential uses.

Testing the multipliers against observed experience is a recommended practice. In doing such testing, one compares the reported multipliers against the observed numbers of people, school children, and/or workers in built and occupied residential and nonresidential development.

Rutgers has begun such testing in New Jersey with respect to:

- 1. The school-age children in about 14,000 attached housing units.
- 2. The number of person in about 5,100 age-restricted units.
- 3. The number of workers in about 11.7 million square feet of office space.

The first above-noted test proceeded as follows:

- 1. Through the Office of Smart Growth, New Jersey Builders Association, New Jersey county planning offices, and other contacts, the Rutgers research team identified a sample of recently built (approximately 1990 to 2000) attached housing developments in New Jersey. Rutgers focused on attached as opposed to detached homes because the greatest controversy concerning the "real world" demographic impact concerns the former units.
- 2. Rutgers then sought housing information (type, size, tenure, and value) for these developments. The research team was successful in obtaining all or most of these housing descriptors for 61 developments scattered throughout New Jersey comprising a total of 14,191 housing units. The 61 projects ranged in size from 8 to 1,042 dwellings apiece.
- 3. In tandem, information was obtained from the developers-owners-managers of these 61 projects on the public school children living in these developments. (Rutgers focused on the public school children demographic for that, much more so than household size, is a subject of considerable controversy.) That public school children information was then cross-checked with the local school districts responsible for providing elementary and secondary education to the 61 developments. At times, there was one responsible (kindergarten -12<sup>th</sup> grade) school district while in other cases, responsibility was divided between two school districts such as a kindergarten -6<sup>th</sup> grade, and 7<sup>th</sup> grade -12<sup>th</sup> grade arrangement. All the host school districts were called; some, however, could or would not provide the requested information. Rutgers was successful in obtaining the actual public school children from the host school districts in about 40 percent of the cases (for 26 developments containing 7,542 housing units of the total 61 developments with an aggregate of 14,191 housing units).
- 4. From the school district and/or developer sources indicated above, it was found that the 14,191 housing units contained 1,975 public school children or an overall public school demographic multiplier of 0.14 (1,975 / 14,191)
- 5. Applying the census-based public school children demographic multipliers for the housing units classified by housing type, size, tenure, and value (as best as the research team could make that differentiation), yields an estimate of 1,941 public school children. (The 90 per confidence interval of the census-based demographics range from 923 public school children [low] to 3,066 public school children [high].) Thus, the actual public school children (1,975) and the estimated public school children (1,941) based on census data are in reasonable approximation of one another.

The age-restricted analysis proceeded as follows:

- 1. From the New Jersey Builders Association, Monmouth-Ocean County planning departments, (two counties with many age-restricted projects), and other sources, Rutgers identified build and occupied age-restricted developments in New Jersey.
- 2. Rutgers then sought to quantify the number of residents in these developments by contacting their developers and homeowners' associations (no government entity had this information). Only the developers had some population data (e.g. from questionnaires

administered to the purchasers-renters of the age-restricted homes) that would inform on the subject—not the ideal source, but the only one that Rutgers could tap.<sup>1</sup>

- 3. Rutgers was able to secure the developer-provided resident population information for 19 age-restricted developments (ranging in size from 20 to almost 1,000 homes) scattered throughout New Jersey. In total, the age-restricted developments contained 5,060 housing units, about two-thirds (3,390 units) detached, and one-third (1,670 units) attached, mostly townhouses. According to the developers, the 5,060 age-restricted units, contained a total of 7,664 persons or an average of 1.51 residents per unit (7,664 / 5,060).
- 4. From the AHS-based data detailed in Part Two of this monograph, an analyst would have projected that the 3,390 detached age-restricted homes would have contained 5,322 persons (3,390 X 1.57) while the 1,670 attached townhouse units would have contained 2,321 persons (1,670 X 1.39) for a total of 7,643 residents in the 19 age-restricted developments. The 7,643 multiplier-predicted population for the 5,060 age-restricted units comports with the developer-reported figure of 7,664 population.

The nonresidential test proceeded as follows:

1. From New Jersey commercial realtors, the New Jersey Office of the National Association of Industrial and Office Parks, the real estate offices of national companies, and other sources, Rutgers identified 12 examples of office buildings (and office parks) in New Jersey and also obtained information on their employment from the same sources. These buildings-office parks ranged in size from 32,000 square feet to 1,200,000 square feet and in the aggregate contained 11,726,457 square feet of gross floor area (GFA). In total, all 13 cases contained 46,105 employees or 3.93 workers per 1,000 square feet GFA. The low nonresidential multiplier was 2.00 workers per 1,000 square feet GFA for a research and development office facility of a national pharmaceutical company; the high was 6.21 workers per 1,000 square feet GFA for the back office space of a utility company.

It is difficult to compare these figures against an "expected standard" because as was earlier noted, there are many sources of nonresidential multipliers and they are far from consistent. On an order of magnitude basis, however, the national data on office worker density is roughly 3 to 4 workers per 1,000 square feet GFA (table II-I-2). Therefore the average of 3.93 employees per 1,000 square feet of GFA obtained by Rutgers from the 13 New Jersey office examples comports reasonably closely.

The above residential and nonresidential multiplier tests conducted by Rutgers represents only a start of what must be contained testing of the population and worker density of built housing and nonresidential developments throughout New Jersey.

#### THE CONTINUTED NEED FOR LOCAL ANALYSIS

The assembled data can only go so far, however, in accurately predicting the actual number of growth-engendered residents and pupils in a specific community or the number of workers in a

<sup>&</sup>lt;sup>1</sup> Unlike with the analysis of the attached, non-age restricted homes described earlier, there was no independent third party source, such as a school district, though which Rutgers could verify the developer-provided information.

given nonresidential development. Optimally, the benchmark data gathered in this document from many sources will be supplemented by local case study analysis of the actual population and workers contained within occupied projects comparable in character (housing type, housing size, housing price, housing tenure, and nonresidential category) and location (i.e. immediate community, county, or larger market area) to the residential and/or nonresidential development(s) being examined.

Case study investigation is admittedly challenging because information on a given built project may be difficult to obtain in terms of the number, type, and price of the housing units or exact nonresidential square footage and business composition. Securing credible arms-length information on a project's actual demographic impacts, such as from a local school district or a retail mall's management company, is more difficult to secure. Yet, case studies can be effected; they are in essence what was accomplished by the nascent Rutgers testing previously described. Further, case studies tremendously enhance the "real world" credibility of demographic study and may revel local contextual factors, such as the quality of the local school system, or retail sales per square foot, that may bear on the demographic impacts from development. In short, the optimal strategy is to combine this document's benchmark data with local case study investigation.

#### **CONCLUSION**

In sum demographic multipliers refer to the number and characteristics of the people, school children, and workers in different land uses. Residential multipliers indicate the number of persons and school children and their associated characteristics (e.g., share of school children attending public schools) in different categories of housing. Nonresidential multipliers reveal the number of workers in different types of nonresidential development.

Demographic multipliers are applied in a broad range of often inter-related applications. These include conducting fiscal, traffic, and other development impact analyses; formulating development standards; calculating impact fees; effecting school enrollment projections; and aiding cost of sprawl studies.

This study has presented residential demographic multipliers for household size, school-age children, and public school children differentiated by housing type, size, value, tenure, and location in New Jersey. In addition, the age distribution of the household members contained within newer built dwellings in New Jersey is presented as well. Rutgers has further developed exploratory data on the public school children impact of transit oriented development (found to be negligible) and has also assembled information on the demographics of age-restricted and *Mount Laurel* housing. Data on nonresidential multipliers has further been compiled. The study authors have begun what must be an ongoing process of testing the demographic multipliers against real world experience; the study's findings to date are that the residential and nonresidential multipliers assembled herein provide a reasonably accurate depiction of the demographic impacts from residential and nonresidential development. That depiction will optimally be supplemented by further case study analysis. All of the above would not have been possible without the assistance of planners, government officials, and developers throughout

New Jersey and Rutgers hopes to continue this collaboration in the future to refine our knowledge of demographic multipliers for New Jersey.

#### **PART TWO**

#### NEW JERSEY DEMOGRAPHIC MULTIPLIERS

Residen	tial Multipliers	
Gen	eral Application (all housing)	
A	. Statewide- all New Jersey (2000)	55
В	Statewide- all New Jersey (1990)	74
C	. By region- Northern New Jersey <sup>2</sup> (2000)	93
D	By region- Central Jersey <sup>3</sup> (2000)	106
Е	By region- Southern New Jersey <sup>4</sup> (2000)	119
Spec	cialized Housing Residential Multipliers.	
F.	Age-restricted housing	132
G	. Transit oriented development housing	
Н	. Mount Laurel (affordable) housing	137
	dential Multipliers	
I.	Nonresidential multipliers by land use category	140
	Commercial Development	
	Industrial Development	148
	Hospitality and Other Development	

Bergen, Essex, Hudson, Morris, Passaic, Sussex, and Union counties.

Hunterdon, Mercer, Middlesex, Monmouth, Ocean, and Somerset counties.

Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, and Salem counties.

# PART TWO NEW JERSEY GENERAL APPLICATION RESIDENTIAL MULTIPLIERS:

#### A. STATEWIDE- ALL NEW JERSEY (2000)

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TABLE I-A-1 STATEWIDE NEW JERSEY TOTAL PERSONS AND PERSONS BY AGE

TOTAL PERSONS AND PERSONS BY AGE									
STRUCTURE TYPE/		<u>AGE</u>							
BEDROOMS/	TOTAL	0.4	- 1-	10.24	25.44		1	<= = 4	
VALUE /TENURE	PERSONS	0-4	5-17	18-34	35-44	45-54	55-64	65-74	<u>-75+</u>
Single-Family Detached, 2 BR									
All Values	2.032	0.081	0.118	0.229	0.190	0.109	0.321	0.674	0.310
Below Median \$267,744	1.971	0.086	0.118	0.267	0.191	0.106	0.264	0.628	0.311
Above Median \$267,744	2.145	0.070	0.119	0.159	0.187	0.115	0.425	0.760	0.309
Single-Family Detached, 3 BR									
All Values	2.977	0.333	0.575	0.632	0.686	0.359	0.202	0.134	0.056
Below Median \$267,744	3.038	0.350	0.636	0.719	0.681	0.329	0.164	0.109	0.048
Above Median \$267,744	2.913	0.315	0.510	0.540	0.690	0.391	0.242	0.160	0.065
Single-Family Detached, 4-5 BR									
All Values	3.774	0.422	1.077	0.539	0.998	0.492	0.146	0.063	0.038
Below Median \$576,679	3.730	0.424	1.040	0.613	0.993	0.437	0.125	0.061	0.037
Above Median \$576,679	3.863	0.417	1.152	0.391	1.007	0.603	0.187	0.066	0.040
Single-Family Attached, 2 BR									
All Values	1.997	0.150	0.156	0.557	0.366	0.265	0.220	0.186	0.097
Below Median \$226,552	2.068	0.166	0.206	0.612	0.385	0.262	0.211	0.147	0.079
Above Median \$226,552	1.914	0.132	0.096	0.492	0.344	0.268	0.232	0.232	0.119
Single-Family Attached, 3 BR									
All Values	2.655	0.239	0.438	0.652	0.530	0.392	0.239	0.110	0.055
Below Median \$267,744	2.823	0.254	0.561	0.754	0.578	0.387	0.178	0.070	0.041
Above Median \$267,744	2.444	0.220	0.283	0.524	0.470	0.398	0.316	0.160	0.073
Single-Family Attached, 4-5 BR		*****							
All Values	3.980	0.640	1.035	0.900	0.628	0.400	0.184	0.163	0.029
Below Median \$370,722	4.537	0.915	1.306	1.226	0.619	0.261	0.101	0.079	0.029
Above Median \$370,722	3.211	0.261	0.661	0.451	0.639	0.592	0.297	0.279	0.029
1100 ( 0 1110 0 1 1 1 1 1 1 1 1 1 1 1 1	3.211	0.201	0.001	0.431	0.057	0.572	0.277	0.277	0.02)
5+ Units-Own Rent, 0-1 BR									
All Values	1.526	0.072	0.076	0.565	0.201	0.103	0.082	0.150	0.277
Below Median \$129,835	1.424	0.072	0.070	0.333	0.201	0.103	0.082	0.130	0.277
Above Median \$129,835	1.628		0.090	0.333	0.131	0.100	0.039	0.243	0.343
·	1.028	0.076	0.001	0.799	0.232	0.099	0.074	0.033	0.211
5+ Units-Own Rent, 2 BR All Values	2 106	0.154	0.245	0.790	0.240	0.224	0.142	0.102	0.110
	2.106	0.154	0.245	0.780	0.340	0.224	0.143	0.102	0.118
Below Median \$185,361	2.242	0.192	0.351	0.833	0.346	0.222	0.139	0.083	0.077
Above Median \$185,361	1.954	0.112	0.127	0.720	0.334	0.226	0.148	0.123	0.163
5+ Units-Own Rent, 3 BR	2.100	0.242	0.500	0.004	0.530	0.050	0.162	0.006	0.053
All Values	3.109	0.343	0.769	0.894	0.539	0.253	0.163	0.096	0.052
Below Median \$206,451	3.499	0.358	1.150	0.879	0.622	0.281	0.139	0.062	0.009
Above Median \$206,451	2.719	0.328	0.388	0.910	0.455	0.224	0.188	0.131	0.095

TABLE I-A-1

STATEWIDE NEW JERSEY
TOTAL PERSONS AND PERSONS BY AGE (Continued)

	TOTAL PERSONS AND PERSONS BY AGE (Continued)								
STRUCTURE TYPE/					<u>AG</u>	<u>E</u>			
BEDROOMS/	TOTAL			10.01			4		
VALUE /TENURE	PERSONS	0-4	5-17	18-34	35-44	45-54	55-64	65-74	<u>-75+</u>
5+ Units-Own, 0-1 BR									
All Values	1.694	0.094	0.125	0.530	0.304	0.145	0.124	0.159	0.214
Below Median \$185,361	1.702	0.137	0.167	0.474	0.364	0.140	0.097	0.151	0.171
Above Median \$185,361	1.682	0.036	0.069	0.605	0.223	0.150	0.159	0.171	0.270
5+ Units-Own, 2 BR									
All Values	1.797	0.071	0.122	0.485	0.320	0.294	0.191	0.153	0.161
Below Median \$226,552	1.771	0.074	0.131	0.520	0.324	0.290	0.164	0.121	0.147
Above Median \$226,552	1.844	0.064	0.105	0.419	0.312	0.301	0.243	0.215	0.186
5+ Units-Own, 3 BR	1.044	0.004	0.103	0.717	0.512	0.501	0.243	0.213	0.100
All Values	2.469	0.213	0.471	0.527	0.401	0.222	0.243	0.129	0.063
				0.537	0.481	0.332			
Below Median \$226,552	2.828	0.301	0.655	0.588	0.524	0.412	0.204	0.103	0.041
Above Median \$226,552	2.104	0.124	0.283	0.486	0.438	0.250	0.282	0.155	0.086
5+ Units-Rent, 0-1 BR									
All Values	1.507	0.069	0.070	0.569	0.190	0.098	0.077	0.149	0.284
Below Median \$125,716		0.069			0.190				0.284
	1.370		0.083	0.285		0.100	0.093	0.262	
Above Median \$125,716	1.644	0.085	0.057	0.855	0.237	0.097	0.061	0.035	0.216
5+ Units-Rent, 2 BR									
All Values	2.303	0.207	0.323	0.967	0.353	0.180	0.113	0.069	0.090
Below Median \$177,123	2.493	0.265	0.478	0.951	0.364	0.195	0.115	0.065	0.060
Above Median \$177,123	2.107	0.147	0.165	0.984	0.342	0.164	0.112	0.073	0.121
5+ Units-Rent, 3 BR									
All Values	3.545	0.431	0.973	1.137	0.577	0.199	0.109	0.075	0.044
Below Median \$173,004	3.666	0.392	1.242	1.064	0.587	0.246	0.114	0.022	0.000
Above Median \$173,004	3.422	0.470	0.702	1.212	0.568	0.151	0.104	0.128	0.088
2.4H-2-0.1 DD									
2-4 Units, 0-1 BR	2.042	0.170	0.200	0.747	0.070	0.001	0.110	0.007	0.122
All Values	2.043	0.179	0.288	0.747	0.278	0.221	0.112	0.087	0.133
Below Median \$123,574	1.868	0.151	0.259	0.650	0.282	0.141	0.111	0.117	0.158
Above Median \$123,574	2.225	0.207	0.318	0.847	0.274	0.304	0.113	0.057	0.106
2-4 Units, 2 BR									
All Values	2.651	0.250	0.453	0.940	0.477	0.217	0.157	0.094	0.063
Below Median \$149,607	2.857	0.341	0.603	0.939	0.497	0.200	0.144	0.082	0.052
Above Median \$149,607	2.440	0.158	0.300	0.940	0.456	0.235	0.169	0.106	0.075
2-4 Units, 3 BR									
All Values	3.529	0.293	0.805	1.062	0.654	0.363	0.209	0.107	0.036
Below Median \$226,552	3.665	0.355	1.070	1.085	0.718	0.269	0.099	0.047	0.021
Above Median \$226,552	3.388	0.228	0.530	1.038	0.588	0.460	0.322	0.170	0.052
·	3.366	0.220	0.550	1.050	0.500	0.400	0.344	0.170	0.032
<b>2-4 Units, 4-5 BR</b> All Values	2.005	0.204	0.740	1 1 4 1	0.622	0.527	0.216	0.104	0.163
	3.995	0.384	0.749	1.141	0.623	0.527	0.216	0.194	0.162
Below Median \$370,722	4.231	0.474	0.965	1.212	0.744	0.557	0.073	0.129	0.078
Above Median \$370,722	3.699	0.270	0.477	1.052	0.471	0.490	0.396	0.276	0.268

TABLE I-A-1

STATEWIDE NEW JERSEY
TOTAL PERSONS AND PERSONS BY AGE (Continued)

TOTAL PE	TOTAL PERSONS AND PERSONS BY AGE (Continued)							
STRUCTURE TYPE/		<u>AGE</u>						
BEDROOMS/	TOTAL							
VALUE /TENURE	PERSONS	0-4 5-17	18-34	35-44	45-54	55-64	65-74 -75+	
All Housing Types (Own), 0-1 BR								
All Values	2.139					0.167		
Below Median \$185,361	1.973	0.134 0.25	6 0.548	0.350	0.244	0.154	0.135 0.152	
Above Median \$185,361	2.326	0.155 0.31	2 0.507	0.560	0.250	0.181	0.158 0.204	
All Housing Types (Own), 2 BR								
All Values	1.933	0.098 0.11	6 0.420	0.294	0.223	0.256	0.348 0.178	
Below Median \$226,552	1.928	0.107 0.13	7 0.484	4 0.315	0.233	0.219	0.271 0.163	
Above Median \$226,552	1.939	0.089 0.09	4 0.351	0.272	0.212	0.296	6 0.430 0.195	
All Housing Types (Own), 3 BR								
All Values	2.851	0.294 0.50	5 0.637	7 0.627	0.378	0.222	0.132 0.056	
Below Median \$308,935	2.931	0.313 0.56	7 0.707	0.656	0.356	0.181	0.102 0.049	
Above Median \$308,935	2.726	0.265 0.40	9 0.529	0.581	0.410	0.286	0.178 0.068	
All Housing Types (Own), 4-5 BR								
All Values	3.767	0.423 1.06	6 0.542	0.989	0.494	0.148	0.066 0.039	
Below Median \$576,679	3.728	0.429 1.03	0 0.616	0.985	0.438	0.128	8 0.063 0.038	
Above Median \$576,679	3.844	0.411 1.13	9 0.394	1 0.996	0.605	0.188	3 0.073 0.040	
All Housing Types (Rent), 0-1 BR								
All Values	1.655	0.092 0.13	0 0.620	0.222	0.121	0.084	0.138 0.249	
Below Median \$123,903	1.503							
Above Median \$123,903	1.808							
All Housing Types (Rent), 2 BR	1.000	0.110 0.13	0.00	0.270	0.120	0.000	0.0.2 0.100	
All Values	2.453	0.242 0.39	0 0.957	7 0.406	0.196	0.119	0.062 0.081	
Below Median \$164,765		0.298 0.54						
Above Median \$164,765		0.184 0.23						
All Housing Types (Rent), 3 BR	2.27		. 1.01.	0.572	0.170	0.112	0.001 0.100	
All Values	3 466	0.358 0.94	5 1.017	7 0.640	0.270	0.139	0.060 0.037	
Below Median \$167,567		0.364 1.13						
Above Median \$167,567		0.353 0.75						
All Housing Types (Rent), 4-5 BR	3.541	0.555 0.75	5 0.75.	0.700	, 0.2/1	U.1-T.	0.007 0.071	
All Values	4 572	0.626 1.43	3 1.256	6 0.733	0.314	0.089	0.089 0.033	
Below Median \$218,149		0.568 1.34						
Above Median \$218,149		0.684 1.52						
1100 to 1110dian #210,117	7.500	0.007 1.32	0.70-	1 0.005	0.512	0.095	0.130 0.029	

TABLE I-A-2 STATEWIDE NEW JERSEY SCHOOL-AGE CHILDREN (SAC)

	IOOL-AGE CIII	EDILETT (BITC)	GRADE	
STRUCTURE TYPE/	TOTAL	F1 4	Junior High	TT: 1 G 1 1
BEDROOMS/ VALUE /TENURE	TOTAL SAC	Elementary (K-6)	School (7-9)	High School (10-12)
Single-Family Detached, 2 BR				
All Values	0.118	0.057	0.025	0.037
Below Median \$267,744	0.118	0.057	0.023	0.041
Above Median \$267,744	0.119	0.063	0.024	0.030
Single-Family Detached, 3 BR	0.119	0.003	0.020	0.030
All Values	0.575	0.360	0.123	0.092
Below Median \$267,744	0.636	0.399		0.072
Above Median \$267,744	0.510	0.319		0.100
Single-Family Detached, 4-5 BR	0.510	0.517	0.100	0.003
All Values	1.077	0.691	0.218	0.169
Below Median \$576,679	1.040	0.666	0.213	0.161
Above Median \$576,679	1.152	0.741	0.228	0.183
Single-Family Attached, 2 BR				
All Values	0.156	0.099	0.029	0.028
Below Median \$226,552	0.206	0.137	0.034	0.036
Above Median \$226,552	0.096	0.055	0.023	0.018
Single-Family Attached, 3 BR				
All Values	0.438	0.248	0.111	0.079
Below Median \$267,744	0.561	0.314	0.159	0.088
Above Median \$267,744	0.283	0.165	0.050	0.068
Single-Family Attached, 4-5 BR				
All Values	1.035	0.681	0.183	0.171
Below Median \$370,722	1.306	0.934	0.194	0.178
Above Median \$370,722	0.661	0.331	0.168	0.162
5+ Units-Own Rent, 0-1 BR				
All Values	0.076	0.050	0.014	0.012
Below Median \$129,835	0.070	0.050	0.014	0.012
Above Median \$129,835	0.090	0.038	0.010	0.014
5+ Units-Own Rent, 2 BR	0.001	0.042	0.010	0.009
All Values	0.245	0.164	0.042	0.039
Below Median \$185,361	0.243	0.104	0.042	0.039
Above Median \$185,361	0.331	0.238	0.001	0.031
5+ Units-Own Rent, 3 BR	0.127	0.082	0.020	0.023
All Values	0.769	0.488	0.167	0.115
Below Median \$206,451	1.150	0.731	0.107	0.113
Above Median \$206,451	0.388			0.131
1100 ve iviculali \$200,431	0.388	0.244	0.000	0.078

TABLE I-A-2 STATEWIDE NEW JERSEY SCHOOL-AGE CHILDREN (SAC)(Continued)

School	-AGE CHILDK				
STRUCTURE TYPE/		<u>GRADE</u>	Junior High		
BEDROOMS/	TOTAL	Elementary	School	<b>High School</b>	
VALUE /TENURE	SAC	(K-6)	(7-9)	(10-12)	
5+ Units-Own, 0-1 BR					
All Values	0.125		0.016	0.008	
Below Median \$185,361	0.167	0.137	0.015	0.015	
Above Median \$185,361	0.069	0.051	0.018	0.000	
5+ Units-Own, 2 BR					
All Values	0.122	0.083	0.015	0.024	
Below Median \$226,552	0.131	0.088	0.013	0.031	
Above Median \$226,552	0.105	0.076	0.019	0.011	
5+ Units-Own, 3 BR					
All Values	0.471	0.335	0.076	0.060	
Below Median \$226,552	0.655	0.435	0.151	0.070	
Above Median \$226,552	0.283	0.234	0.000	0.049	
5+ Units-Rent, 0-1 BR					
All Values	0.070	0.044	0.014	0.012	
Below Median \$125,716	0.083	0.050	0.019	0.012	
Above Median \$125,716	0.057	0.038	0.009	0.014	
5+ Units–Rent, 2 BR	0.037	0.038	0.007	0.010	
All Values	0.323	0.216	0.059	0.049	
Below Median \$177,123	0.478	0.210	0.039	0.072	
Above Median \$177,123	0.165	0.317	0.038	0.072	
5+ Units–Rent, 3 BR	0.103	0.112	0.020	0.023	
All Values	0.973	0.591	0.229	0.152	
Below Median \$173,004	1.242	0.814	0.251	0.177	
Above Median \$173,004	0.702	0.367	0.208	0.127	
2-4 Units, 0-1 BR					
All Values	0.288	0.168	0.055	0.064	
Below Median \$123,574	0.259	0.108	0.033	0.067	
Above Median \$123,574	0.318	0.140	0.047	0.061	
2-4 Units, 2 BR	0.516	0.190	0.007	0.001	
All Values	0.453	0.304	0.079	0.071	
Below Median \$149,607	0.603		0.073	0.090	
Above Median \$149,607	0.300		0.066	0.050	
2-4 Units, 3 BR	0.300	0.162	0.000	0.031	
All Values	0.805	0.468	0.189	0.147	
Below Median \$226,552	1.070		0.189	0.147	
Above Median \$226,552	0.530	0.813	0.236	0.200	
2-4 Units, 4-5 BR	0.530	0.510	0.120	0.033	
All Values	0.749	0.405	0.178	0.167	
Below Median \$370,722	0.749		0.178	0.167	
Above Median \$370,722	0.477		0.000	0.168	
1100 το 1τιοαιαίι ψ3 / 0, / 22	U. <del>4</del> / /	0.509	0.000	0.108	

#### TABLE I-A-2 STATEWIDE NEW JERSEY SCHOOL-AGE CHILDREN (SAC) (Continued)

SCHOOL-AGE CHILDREN (SAC) (Continued)  GRADE									
STRUCTURE TYPE/									
BEDROOMS/	TOTAL	Elementary	Junior High School	High School					
VALUE /TENURE	SAC	(K-6)	<b>(7-9)</b>	(10-12)					
All Housing Types (Own), 0-1 BR									
All Values	0.282	0.181	0.065	0.036					
Below Median \$185,361	0.256	0.173	0.048	0.036					
Above Median \$185,361	0.312	0.191	0.085	0.036					
All Housing Types (Own), 2 BR									
All Values	0.116	0.071	0.023	0.022					
Below Median \$226,552	0.137	0.088	0.022	0.027					
Above Median \$226,552	0.094	0.053	0.024	0.016					
All Housing Types (Own), 3 BR									
All Values	0.505	0.310	0.110	0.085					
Below Median \$308,935	0.567	0.353	0.125	0.090					
Above Median \$308,935	0.409	0.244	0.087	0.078					
All Housing Types (Own), 4-5 BR									
All Values	1.066	0.682	0.216	0.168					
Below Median \$576,679	1.030	0.658	0.211	0.161					
Above Median \$576,679	1.139	0.730	0.226	0.182					
All Housing Types (Rent), 0-1 BR									
All Values	0.130	0.076	0.027	0.027					
Below Median \$123,903	0.127	0.072	0.028	0.028					
Above Median \$123,903	0.133	0.080	0.027	0.026					
All Housing Types (Rent), 2 BR									
All Values	0.390	0.255	0.066	0.069					
Below Median \$164,765	0.542	0.363	0.084	0.095					
Above Median \$164,765	0.235	0.146	0.047	0.043					
All Housing Types (Rent), 3 BR									
All Values	0.945	0.554	0.241	0.151					
Below Median \$167,567	1.135	0.662	0.289	0.183					
Above Median \$167,567	0.753	0.444	0.191	0.117					
All Housing Types (Rent), 4-5 BR									
All Values	1.433	0.942	0.271	0.221					
Below Median \$218,149	1.347	0.749	0.306	0.292					
Above Median \$218,149	1.520	1.136	0.235	0.149					

TABLE I-A-3 STATEWIDE NEW JERSEY PUBLIC SCHOOL CHILDREN (PSC)

PUBLI	C SCHOOL C	•	C SCHOOL G	DADE
STRUCTURE TYPE/			<u>Junior High</u>	KADE
BEDROOMS/ VALUE /TENURE	TOTAL PSC	Elementary (K-6)	School (7-9)	High School (10-12)
VALCE/TENCKE	1 BC	(K-0)	(1-2)	(10-12)
Single-Family Detached, 2 BR				
All Values	0.101	0.045	0.020	0.035
Below Median \$267,744	0.102	0.045	0.018	0.039
Above Median \$267,744	0.098	0.046	0.024	0.027
Single-Family Detached, 3 BR				
All Values	0.484	0.291	0.112	0.082
Below Median \$267,744	0.542	0.330	0.123	0.089
Above Median \$267,744	0.423	0.250	0.099	0.074
Single-Family Detached, 4-5 BR				
All Values	0.872	0.549	0.183	0.140
Below Median \$576,679	0.861	0.538	0.186	0.138
Above Median \$576,679	0.892	0.572	0.176	0.144
Single-Family Attached, 2 BR				
All Values	0.126	0.081	0.021	0.024
Below Median \$226,552	0.164	0.108	0.027	0.030
Above Median \$226,552	0.081	0.050	0.015	0.016
Single-Family Attached, 3 BR				
All Values	0.381	0.210	0.098	0.073
Below Median \$267,744	0.491	0.274	0.139	0.078
Above Median \$267,744	0.244	0.130	0.048	0.066
Single-Family Attached, 4-5 BR				
All Values	0.577	0.313	0.136	0.128
Below Median \$370,722	0.670	0.392	0.129	0.150
Above Median \$370,722	0.449	0.205	0.145	0.099
5+ Units-Own Rent, 0-1 BR				
All Values	0.066	0.046	0.012	0.008
Below Median \$129,835	0.078	0.051	0.016	0.011
Above Median \$129,835	0.054	0.040	0.008	0.006
5+ Units-Own Rent, 2 BR				
All Values	0.206	0.138	0.036	0.032
Below Median \$185,361	0.310	0.206	0.056	0.047
Above Median \$185,361	0.090	0.062	0.013	0.015
5+ Units-Own Rent, 3 BR				
All Values	0.674	0.424	0.164	0.087
Below Median \$206,451	1.038	0.681	0.262	0.095
Above Median \$206,451	0.309	0.166	0.066	0.078

#### TABLE I-A-3 STATEWIDE NEW JERSEY PUBLIC SCHOOL CHILDREN (PSC)(Continued)

				GRADE		
STRUCTURE TYPE/		TOBLIC	BLIC SCHOOL GRADE Junior High			
BEDROOMS/	TOTAL	Elementary	School	High School		
VALUE /TENURE	PSC	(K-6)	<b>(7-9)</b>	(10-12)		
5+ Units-Own, 0-1 BR						
All Values	0.117	0.100	0.009	0.008		
Below Median \$129,835	0.167	0.137	0.015	0.015		
Above Median \$129,835	0.051	0.051	0.000	0.000		
5+ Units-Own, 2 BR						
All Values	0.098	0.067	0.013	0.018		
Below Median \$226,552	0.101	0.065	0.013	0.024		
Above Median \$226,552	0.092	0.072	0.013	0.007		
5+ Units-Own, 3 BR						
All Values	0.442	0.321	0.068	0.054		
Below Median \$226,552	0.598	0.406	0.134	0.058		
Above Median \$226,552	0.283	0.234	0.000	0.049		
5+ Units-Rent, 0-1 BR						
All Values	0.060	0.040	0.012	0.008		
Below Median \$125,716	0.069	0.040	0.012	0.008		
Above Median \$125,716	0.009	0.043	0.013	0.011		
	0.031	0.037	0.009	0.006		
5+ Units–Rent, 2 BR All Values	0.275	0.102	0.051	0.041		
	0.275	0.183	0.051	0.041		
Below Median \$177,123	0.432	0.286	0.081	0.065		
Above Median \$177,123	0.115	0.078	0.019	0.017		
5+ Units-Rent, 3 BR				0.400		
All Values	0.832	0.493	0.229	0.109		
Below Median \$173,004	1.103	0.761	0.251	0.091		
Above Median \$173,004	0.560	0.225	0.208	0.127		
2-4 Units, 0-1 BR						
All Values	0.250	0.139	0.052	0.059		
Below Median \$123,574	0.237	0.126	0.044	0.067		
Above Median \$123,574	0.264	0.153	0.060	0.051		
2-4 Units, 2 BR						
All Values	0.382	0.252	0.074	0.057		
Below Median \$149,607	0.514	0.360	0.084	0.071		
Above Median \$149,607	0.248	0.141	0.064	0.042		
2-4 Units, 3 BR						
All Values	0.684	0.386	0.171	0.128		
Below Median \$226,552	0.946	0.523	0.244	0.180		
Above Median \$226,552	0.412	0.244	0.094	0.074		
2-4 Units, 4-5 BR						
All Values	0.556	0.247	0.143	0.167		
Below Median \$370,722	0.742		0.256	0.165		
Above Median \$370,722	0.322		0.000	0.168		

### TABLE I-A-3 STATEWIDE NEW JERSEY

PUBLIC SCHOOL CHILDREN (PSC) (Continued) **PUBLIC SCHOOL GRADE** STRUCTURE TYPE/ Junior High TOTAL BEDROOMS/ School High School Elementary (10-12)VALUE /TENURE **PSC** (K-6)(7-9)All Housing Types (Own), 0-1 BR All Values 0.239 0.154 0.051 0.034 Below Median \$185,361 0.222 0.144 0.043 0.036 Above Median \$185,361 0.257 0.166 0.059 0.032 All Housing Types (Own), 2 BR All Values 0.094 0.057 0.018 0.020 Below Median \$226,552 0.110 0.068 0.019 0.024 Above Median \$226,552 0.077 0.046 0.017 0.015 All Housing Types (Own), 3 BR All Values 0.254 0.429 0.098 0.077 Below Median \$308,935 0.487 0.293 0.112 0.082 Above Median \$308,935 0.339 0.192 0.077 0.069 All Housing Types (Own), 4-5 BR All Values 0.860 0.540 0.181 0.139 Below Median \$576,679 0.850 0.530 0.183 0.137 Above Median \$576,679 0.880 0.561 0.176 0.143 All Housing Types (Rent), 0-1 BR All Values 0.114 0.066 0.025 0.023 Below Median \$123,903 0.113 0.064 0.024 0.025 Above Median \$123,903 0.115 0.068 0.0260.021All Housing Types (Rent), 2 BR All Values 0.331 0.215 0.059 0.057 Below Median \$164,765 0.477 0.321 0.079 0.077 Above Median \$164,765 0.182 0.107 0.038 0.037 All Housing Types (Rent), 3 BR All Values 0.819 0.468 0.227 0.123 Below Median \$167,567 1.010 0.600 0.274 0.137 Above Median \$167,567 0.627 0.336 0.180 0.110 All Housing Types (Rent), 4-5 BR All Values 0.894 0.500 0.213 0.182 Below Median \$218,149 1.077 0.531 0.270 0.276 Above Median \$218,149 0.709 0.468 0.087 0.154

TABLE I-A-4 STATEWIDE NEW JERSEY STATISTICS FOR TOTAL PERSONS

	ITESTOR	TOTAL P		% Conf	idence	Interval
STRUCTURE TYPE/						Error
BEDROOMS/	TOTAL	Number of	${\bf Standard}$			Margin
VALUE /TENURE	PERSONS	Households	Error	low	high	as %
Circula Familia Data shad 2 DD						
<b>Single-Family Detached, 2 BR</b> All Values	2.022	15 071	0.111	1 0 4 0	2 215	9%
Below Median \$267,744	2.032	· · · · · · · · · · · · · · · · · · ·		1.849		
Above Median \$267,744	1.971	10,356		1.750		
	2.145	5,615	0.196	1.822	2.468	15%
Single-Family Detached, 3 BR All Values	2.077	51 265	0.005	2 027	2 117	50/
	2.977	· · · · · · · · · · · · · · · · · · ·		2.837		
Below Median \$267,744	3.038	,		2.838		
Above Median \$267,744	2.913	24,950	0.121	2.714	3.111	7%
Single-Family Detached, 4-5 BR						
All Values	3.774	101,445	0.074	3.652	3.896	3%
Below Median \$576,679	3.730	· ·			3.879	
Above Median \$576,679	3.863	,		3.644		
. ,						
Single-Family Attached, 2 BR						
All Values	1.997	26,481	0.085	1.858	2.137	7%
Below Median \$226,552	2.068	· · · · · · · · · · · · · · · · · · ·			2.263	
Above Median \$226,552	1.914	,		1.715		
Single-Family Attached, 3 BR		,				
All Values	2.655	27,410	0.106	2.480	2.829	7%
Below Median \$267,744	2.823	· · · · · · · · · · · · · · · · · · ·		2.575	3.070	
Above Median \$267,744	2.444	· · · · · ·		2.199		
Single-Family Attached, 4-5 BR		12,101	0.1.5	,	,	10,0
All Values	3.980	2,894	0 469	3.209	4 751	19%
Below Median \$370,722	4.537	· /		3.397		
Above Median \$370,722	3.211	1,217		2.229		
5+ Units-Own Rent, 0-1 BR						
All Values	1.526	· /			1.633	
Below Median \$129,835	1.424	14,409	0.088	1.280	1.568	10%
Above Median \$129,835	1.628	14,323	0.098	1.467	1.788	10%
5+ Units-Own Rent, 2 BR						
All Values	2.106	26,347	0.089	1.960	2.252	7%
Below Median \$185,361	2.242	13,928	0.129	2.030	2.455	9%
Above Median \$185,361	1.954	12,419	0.122	1.753	2.154	10%
5+ Units-Own Rent, 3 BR						
All Values	3.109	4,644	0.297	2.621	3.598	16%
Below Median \$206,451	3.499	2,324	0.466	2.732	4.266	22%
Above Median \$206,451	2.719	2,320	0.374	2.103	3.334	23%

TABLE I-A-4 STATEWIDE NEW JERSEY STATISTICS FOR TOTAL PERSONS (Continued)

STATISTICS FOR TOTAL PERSONS (Continued) 90% Confidence Interval								
STRUCTURE TYPE/				90	% Confide	Error		
BEDROOMS/	TOTAL	Number of	Standard			Margin		
VALUE /TENURE	PERSONS		Error	Low	high	as %		
5+ Units-Own, 0-1 BR			-					
All Values	1.694	2,892	0.225	1.324	2.064	22%		
Below Median \$185,361	1.702		0.299	1.211	2.194	29%		
Above Median \$185,361	1.682	-	0.342	1.120	2.244	33%		
5+ Units-Own, 2 BR		-,						
All Values	1.797	10,228	0.125	1.590	2.003	11%		
Below Median \$226,552	1.771	6,700	0.153	1.519	2.024	14%		
Above Median \$226,552	1.844	3,528	0.218	1.485	2.203	19%		
5+ Units-Own, 3 BR		- ,-						
All Values	2.469	1,880	0.382	1.840	3.098	25%		
Below Median \$226,552	2.828	· · · · · · · · · · · · · · · · · · ·	0.605	1.832	3.824	35%		
Above Median \$226,552	2.104		0.474	1.324	2.884	37%		
. ,		,,,,	0.1,1	1.02.	2.00	2770		
5+ Units-Rent, 0-1 BR								
All Values	1.507	25,840	0.068	1.395	1.619	7%		
Below Median \$125,716	1.370	· · · · · · · · · · · · · · · · · · ·	0.090	1.223	1.518	11%		
Above Median \$125,716	1.644	12,881	0.104	1.473	1.815	10%		
5+ Units-Rent, 2 BR								
All Values	2.303	16,119	0.123	2.101	2.505	9%		
Below Median \$177,123	2.493		0.185	2.189	2.798	12%		
Above Median \$177,123	2.107	7,969	0.162	1.841	2.374	13%		
5+ Units-Rent, 3 BR								
All Values	3.545	2,764	0.432	2.833	4.256	20%		
Below Median \$173,004	3.666	-	0.630	2.630	4.702	28%		
Above Median \$173,004	3.422		0.593	2.446	4.398	29%		
2-4 Units, 0-1 BR								
All Values	2.043	· · · · · · · · · · · · · · · · · · ·	0.188	1.734	2.352	15%		
Below Median \$123,574	1.868		0.244	1.466	2.270	22%		
Above Median \$123,574	2.225	2,777	0.288	1.751	2.698	21%		
2-4 Units, 2 BR	2 651	0.026	0.106	2 2 4 4	2055	100/		
All Values	2.651	8,926	0.186	2.344	2.957	12%		
Below Median \$149,607	2.857		0.280	2.397	3.317	16%		
Above Median \$149,607	2.440	4,412	0.247	2.034	2.846	17%		
2-4 Units, 3 BR								
All Values	3.529		0.271	3.082	3.975	13%		
Below Median \$226,552	3.665	· · · · · · · · · · · · · · · · · · ·	0.394	3.017	4.312	18%		
Above Median \$226,552	3.388	3,411	0.374	2.773	4.003	18%		
2-4 Units, 4-5 BR								
All Values	3.995	· · · · · · · · · · · · · · · · · · ·	0.768	2.733	5.258	32%		
Below Median \$370,722	4.231		1.084	2.449	6.014	42%		
Above Median \$370,722	3.699	482	1.076	1.929	5.469	48%		

TABLE I-A-4 STATEWIDE NEW JERSEY STATISTICS FOR TOTAL PERSONS (Continued)

STATISTICST	KIOIA	90% Confidence Interval				
STRUCTURE TYPE/		· ·				Error
BEDROOMS/	TOTAL	Number of S	Standard			Margin
VALUE /TENURE	PERSONS	Households	Error	Low	high	as %
All Housing Types (Own), 0-1 BR						
All Values	2.139			1.847		14%
Below Median \$185,361	1.973			1.598		19%
Above Median \$185,361	2.326	3,211	0.278	1.869	2.784	20%
All Housing Types (Own), 2 BR						
All Values	1.933	/	0.060	1.835	2.032	5%
Below Median \$226,552	1.928	26,108	0.083	1.792	2.065	7%
Above Median \$226,552	1.939	24,257	0.087	1.797	2.081	7%
All Housing Types (Own), 3 BR						
All Values	2.851	78,922	0.066	2.742	2.959	4%
Below Median \$308,935	2.931	47,888	0.087	2.788	3.075	5%
Above Median \$308,935	2.726	31,034	0.102	2.558	2.894	6%
All Housing Types (Own), 4-5 BR						
All Values	3.767	103,462	0.073	3.646	3.887	3%
Below Median \$576,679	3.728	68,966	0.090	3.581	3.875	4%
Above Median \$576,679	3.844	34,496	0.131	3.629	4.060	6%
All Housing Types (Rent), 0-1 BR						
All Values	1.655			1.547		7%
Below Median \$123,903	1.503			1.362		9%
Above Median \$123,903	1.808	16,269	0.100	1.644	1.972	9%
All Housing Types (Rent), 2 BR						
All Values	2.453			2.290		7%
Below Median \$164,765	2.629			2.385		9%
Above Median \$164,765	2.274	13,553	0.133	2.056	2.492	10%
All Housing Types (Rent), 3 BR						
All Values	3.466	/	0.208	3.124	3.808	10%
Below Median \$167,567	3.590	5,743	0.303	3.091	4.089	14%
Above Median \$167,567	3.341	5,703	0.286	2.872	3.811	14%
All Housing Types (Rent), 4-5 BR						
All Values	4.572	2,139	0.618	3.555	5.589	22%
Below Median \$218,149	4.638	1,076	0.883	3.185	6.090	31%
Above Median \$218,149	4.506	1,063	0.866	3.082	5.930	32%

### TABLE I-A-5 STATEWIDE NEW JERSEY

STATISTICS FOR SCHOOL-AGE CHILDREN (SAC)

STATISTICS FOR SCHOOL-AGE CHILDREN (SAC)									
		<u> 70</u>	70 COIII	idence .	Error				
TOTAL	Number of	Standard			Margin				
SAC			low	high	as %				
0.118	15,971	0.016	0.092	0.145	23%				
0.118	10,356	0.020	0.085	0.151	28%				
0.119	5,615	0.028	0.074	0.165	38%				
0.575	51,365	0.024	0.536	0.614	7%				
0.636	26,415	0.035	0.578	0.694	9%				
0.510	24,950	0.031	0.458	0.562	10%				
1.077	101,445	0.026	1.034	1.121	4%				
1.040	67,672	0.032	0.988	1.092	5%				
1.152	33,773	0.048	1.072	1.231	7%				
		0.015	0.131	0.180					
0.206	14,342	0.024	0.168	0.245	19%				
0.096	12,139	0.017	0.068	0.123	29%				
0.438	27,410	0.027	0.393	0.482	10%				
0.561	15,259	0.043	0.490	0.631	13%				
0.283	12,151	0.031	0.232	0.334	18%				
1.035	2,894	0.153	0.784	1.287	24%				
1.306			0.911	1.702	30%				
	,								
	/								
0.061	14,323	0.012	0.041	0.081	33%				
0.245	26,347	0.019	0.214	0.277	13%				
0.351	13,928	0.033	0.296	0.405	15%				
0.127	12,419	0.019	0.095	0.159	25%				
0.769	4,644	0.097	0.610	0.929	21%				
	,		0.846						
	0.118 0.118 0.119 0.575 0.636 0.510 1.077 1.040 1.152 0.156 0.206 0.096 0.438 0.561 0.283 1.035 1.306 0.661 0.283 1.035 1.306 0.661 0.245 0.351 0.127 0.769 1.150	TOTAL SAC Households  0.118	TOTAL SAC Households Error    0.118	TOTAL SAC         Number of Households         Standard Error         low           0.118	TOTAL SAC         Number of Households         Standard Error         low         high           0.118         15,971         0.016         0.092         0.145           0.118         10,356         0.020         0.085         0.151           0.119         5,615         0.024         0.536         0.614           0.636         26,415         0.035         0.578         0.694           0.510         24,950         0.031         0.458         0.562           1.077         101,445         0.026         1.034         1.121           1.040         67,672         0.032         0.988         1.092           1.152         33,773         0.048         1.072         1.231           0.156         26,481         0.015         0.131         0.180           0.206         14,342         0.024         0.168         0.245           0.096         12,139         0.017         0.068         0.123           0.438         27,410         0.027         0.393         0.482           0.561         15,259         0.043         0.490         0.631           0.283         12,151         0.031         0.232         0.334     <				

#### TABLE I-A-5 STATEWIDE NEW JERSEY

STATISTICS FOR SCHOOL-AGE CHILDREN (SAC) (Continued)

SIAIISIICS FU	K SCHOOL-	AGE CHILL		90% Confidence	Interval
STRUCTURE TYPE/			<u>-</u>	70 70 Confidence	Error
BEDROOMS/		Number of	Standard		Margin
VALUE /TENURE	TOTAL SAC	Households	Error	low high	as %
5+ Units-Own, 0-1 BR	0.125	2,892	0.039	0.060 0.190	52%
All Values	0.167	1,653	0.062	0.066 0.268	61%
Below Median \$185,361	0.069	1,239	0.044	0.000 0.140	105%
Above Median \$185,361					
5+ Units-Own, 2 BR	0.122	10,228	0.021	0.088 0.157	28%
All Values	0.131	6,700	0.027	0.087 0.175	33%
Below Median \$226,552	0.105	3,528	0.033	0.052 0.159	51%
Above Median \$226,552					
5+ Units-Own, 3 BR	0.471	1,880	0.109	0.292 0.650	38%
All Values	0.655	948	0.192	0.340 0.970	48%
Below Median \$226,552	0.283	932	0.112	0.099 0.467	65%
Above Median \$226,552	0.125	2,892	0.039	0.060 0.190	52%
		Ź			
5+ Units-Rent, 0-1 BR					
All Values	0.070	25,840	0.010	0.054 0.086	23%
Below Median \$125,716	0.083	12,959	0.015	0.058 0.107	30%
Above Median \$125,716	0.057	12,881	0.012	0.037 0.078	35%
5+ Units-Rent, 2 BR					
All Values	0.323	16,119	0.029	0.275 0.371	15%
Below Median \$177,123	0.478	8,150	0.053	0.391 0.564	18%
Above Median \$177,123	0.165	7,969	0.028	0.119 0.211	28%
5+ Units-Rent, 3 BR					
All Values	0.973	2,764	0.149	0.727 1.218	25%
Below Median \$173,004	1.242	1,384	0.254	0.824 1.660	34%
Above Median \$173,004	0.702	1,380	0.167	0.428 0.976	39%
2-4 Units, 0-1 BR	0.200	5.650	0.046	0.010.006	260/
All Values	0.288	5,658	0.046	0.212 0.363	
Below Median \$123,574	0.259	2,881	0.060	0.160 0.358	
Above Median \$123,574	0.318	2,777	0.070	0.203 0.432	36%
2-4 Units, 2 BR	0.452	0.026	0.040	0.272.0.522	100/
All Values	0.453	8,926	0.049	0.373 0.533	
Below Median \$149,607	0.603	4,514	0.083	0.467 0.739	
Above Median \$149,607	0.300	4,412	0.053	0.212 0.388	29%
2-4 Units, 3 BR	0.005	6.040	0.002	0.670.0040	170/
All Values	0.805	6,949	0.082	0.670 0.940	
Below Median \$226,552	1.070		0.142	0.837 1.303	
Above Median \$226,552	0.530	3,411	0.087	0.386 0.674	27%
2-4 Units, 4-5 BR			0.10=	0.407.4.0==	
All Values	0.749		0.197	0.425 1.072	
Below Median \$370,722	0.965		0.317	0.443 1.487	
Above Median \$370,722	0.477	482	0.217	0.121 0.834	75%

TABLE I-A-5 STATEWIDE NEW JERSEY

STATISTICS FOR SCHOOL-AGE CHILDREN (SAC) (Continued)

STATISTICS FOR SC	HOOL-AG	E CHILDR	EN (SAC	C) (Con	tinuec	<b>l</b> )	
		90% Confidence Interva					
STRUCTURE TYPE/						Error	
BEDROOMS/	TOTAL	Number of S				Margin	
VALUE /TENURE	SAC	Households	Error	low	high	as %	
All Housing Types (Own), 0-1 BR							
All Values	0.282	6,840	0.041	0.215	0.350	24%	
Below Median \$185,361	0.256	· · · · · · · · · · · · · · · · · · ·		0.168			
Above Median \$185,361	0.312	· · · · · · · · · · · · · · · · · · ·		0.207			
All Housing Types (Own), 2 BR	0.512	3,211	0.004	0.207	0.717	3470	
All Values	0.116	50,365	0.009	0.101	0.131	13%	
Below Median \$226,552	0.110	-		0.114			
Above Median \$226,552	0.137	,		0.075			
All Housing Types (Own), 3 BR	0.074	24,237	0.012	0.075	0.113	2070	
All Values	0.505	78,922	0.017	0.476	0 534	6%	
Below Median \$308,935	0.567			0.527			
Above Median \$308,935	0.409	· · · · · · · · · · · · · · · · · · ·		0.369			
All Housing Types (Own), 4-5	0.107	31,031	0.021	0.507	0.117	1070	
BR							
All Values	1.066	103,462	0.026	1.024	1.109	4%	
Below Median \$576,679	1.030	68,966	0.031	0.979	1.081	5%	
Above Median \$576,679	1.139	34,496	0.047	1.061	1.217	7%	
All Housing Types (Rent), 0-1 BR							
All Values	0.130	32,613	0.012	0.110	0.150	15%	
Below Median \$123,903	0.130	16,344		0.110			
Above Median \$123,903	0.127	· /		0.099			
All Housing Types (Rent), 2 BR	0.133	10,209	0.017	0.103	0.102	21/0	
All Values	0.390	27,360	0.025	0.349	0.432	11%	
Below Median \$164,765	0.542	13,807		0.470			
Above Median \$164,765	0.235			0.470			
All Housing Types (Rent), 3 BR	0.233	13,333	0.020	0.172	0.217	10/0	
All Values	0.945	11,446	0.072	0.827	1.063	12%	
Below Median \$167,567	1.135			0.827	1.326	/-	
Above Median \$167,567	0.753	-		0.612			
All Housing Types (Rent), 4-5	0.733	3,703	0.000	0.012	0.093	19/0	
BR							
All Values	1.433	2,139	0.229	1.057	1.809	26%	
Below Median \$218,149	1.347		0.307		1.852		
Above Median \$218,149	1.520	· · · · · · · · · · · · · · · · · · ·			2.080		
'							

### TABLE I-A-6 STATEWIDE NEW JERSEY

STATISTICS FOR PUBLIC SCHOOL CHILDREN (PSC) 90% Confidence Interval STRUCTURE TYPE/ **Error** TOTAL BEDROOMS/ Number of Standard Margin VALUE /TENURE **PSC** Households Error high low as % Single-Family Detached, 2 BR All Values 0.101 15,971 0.017 0.073 0.129 28% Below Median \$267,744 0.102 10,356 0.021 0.067 0.137 34% Above Median \$267,744 0.098 5,615 0.028 0.051 0.144 48% Single-Family Detached, 3 BR All Values 8% 0.484 51,365 0.023 0.446 0.523 Below Median \$267,744 0.542 0.035 0.484 0.600 11% 26,415 Above Median \$267,744 0.423 24,950 0.031 0.372 0.474 12% Single-Family Detached, 4-5 BR All Values 0.872 101,445 0.024 0.831 0.912 5% Below Median \$576,679 6% 0.861 67,672 0.030 0.812 0.910 Above Median \$576,679 0.892 33,773  $0.043 \ 0.821 \ 0.963$ 8% Single-Family Attached, 2 BR All Values 0.126 26,481 0.015 0.102 0.151 19% Below Median \$226,552 14,342 0.023 0.126 0.203 23% 0.164 Above Median \$226,552 0.081 12,139  $0.017 \ 0.052 \ 0.110$ 35% Single-Family Attached, 3 BR All Values 0.381 27,410 0.028 0.336 0.427 12% Below Median \$267,744 0.491 15,259 0.043 0.420 0.562 15% Above Median \$267,744 0.244 12,151 0.032 0.191 0.296 21% Single-Family Attached, 4-5 BR All Values 0.577 2,894 0.111 0.395 0.759 32% Below Median \$370,722 39% 0.670 1,677  $0.160 \ 0.407 \ 0.934$ Above Median \$370,722 0.145 0.210 0.687 0.449 1.217 53% 5+ Units-Own Rent, 0-1 BR All Values 28,732 0.010 0.049 0.083 25% 0.066 Below Median \$129,835 0.078 14,409 0.016 0.052 0.103 33% Above Median \$129,835 0.054 14,323 0.013 0.033 0.075 39% 5+ Units-Own Rent, 2 BR All Values 0.206 26,347 0.020 0.174 0.239 16% Below Median \$185,361 0.310 13,928 0.034 0.254 0.366 18% Above Median \$185,361 0.09012,419 0.018 0.060 0.120 33% 5+ Units-Own Rent, 3 BR

0.674

1.038

0.309

All Values

Below Median \$206,451

Above Median \$206,451

0.097 0.515 0.833

0.184 0.735 1.341

0.084 0.172 0.447

24%

29%

45%

4,644

2,324

2,320

TABLE I-A-6 STATEWIDE NEW JERSEY STATISTICS FOR PUBLIC SCHOOL CHILDREN (PSC) (Continued)

STATISTICS FO	PUBLIC S	CHOOL CE	IILDKEN (PSC)	-		) nce Interval
STRUCTURE TYPE/				90%	Commue	Error
BEDROOMS/	TOTAL	Number of				Margin
VALUE /TENURE	PSC		Standard Error	low	high	as %
5+ Units-Own, 0-1 BR						
All Values	0.117	2,892	0.043	0.046	0.189	61%
Below Median \$185,361	0.167				0.282	69%
Above Median \$185,361	0.051	1,239		0.000		138%
5+ Units-Own, 2 BR	0.001	1,200	0.0.5	0.000	v.1 <b>-</b> 1	120,0
All Values	0.098	10,228	0.021	0.063	0.132	35%
Below Median \$226,552	0.101	-			0.132	43%
Above Median \$226,552	0.092			0.035		62%
5+ Units-Own, 3 BR	0.072	3,320	0.054	0.055	0.140	0270
All Values	0.442	1,880	0.116	0.252	0.632	43%
Below Median \$226,552	0.598	-		0.232		54%
Above Median \$226,552	0.283			0.273		73%
Above Median \$220,332	0.283	932	0.120	0.077	0.490	/370
5+ Units-Rent, 0-1 BR						
All Values	0.060	25,840	0.010	0.043	0.077	28%
Below Median \$125,716	0.069	12,959	0.015	0.043	0.094	37%
Above Median \$125,716	0.051	12,881	0.013	0.030	0.073	43%
5+ Units-Rent, 2 BR		,				
All Values	0.275	16,119	0.030	0.226	0.324	18%
Below Median \$177,123	0.432	8,150	0.055	0.342	0.522	21%
Above Median \$177,123	0.115	-	0.026	0.072	0.157	37%
5+ Units-Rent, 3 BR		,				
All Values	0.832	2,764	0.145	0.594	1.070	29%
Below Median \$173,004	1.103	-		0.692		37%
Above Median \$173,004	0.560			0.302		46%
2-4 Units, 0-1 BR						
All Values	0.250	5,658	0.047	0.172	0.328	31%
Below Median \$123,574	0.237	,		0.172		45%
Above Median \$123,574	0.264			0.131		43%
2-4 Units, 2 BR	0.204	2,777	0.070	0.177	0.517	7370
All Values	0.382	8,926	0.049	0.303	0.462	21%
Below Median \$149,607	0.514	-			0.649	26%
Above Median \$149,607	0.248			0.160		35%
2-4 Units, 3 BR	0.240	7,712	0.033	0.100	0.555	3370
All Values	0.684	6,949	0.080	0.553	0.815	19%
Below Median \$226,552	0.084				1.176	24%
Above Median \$226,552	0.940	-			0.547	33%
2-4 Units, 4-5 BR	0.412	3,411	0.062	0.211	0.547	3370
All Values	0.556	1 007	0.176	0.266	0.845	52%
Below Median \$370,722	0.556	-		0.266		
Above Median \$370,722						63%
Above Median \$5/0,/22	0.322	482	0.188	0.012	0.031	96%

TABLE I-A-6 STATEWIDE NEW JERSEY

STATISTICS FOR PUBLIC SCHOOL CHILDREN (PSC) (Continued) 90% Confidence Interval STRUCTURE TYPE/ Error Number of Standard BEDROOMS/ TOTAL Margin VALUE /TENURE **PSC** Households Error low high as % All Housing Types (Own), 0-1 BR All Values 29% 0.239 6,840 0.042 0.170 0.308 0.222 Below Median \$185,361 3,629 0.055 0.131 0.313 41% Above Median \$185,361 0.257 3,211 0.064 0.152 0.362 41% All Housing Types (Own), 2 BR All Values 0.094 0.009 0.079 0.110 16% 50,365 Below Median \$226,552 0.110 26,108 0.014 0.087 0.133 21% Above Median \$226,552 0.012 0.057 0.097 0.07724,257 26% All Housing Types (Own), 3 BR All Values 0.429 78,922 0.017 0.400 0.458 7% Below Median \$308,935 0.487 47,888 0.024 0.447 0.527 8% Above Median \$308,935 0.339 31,034  $0.024 \ 0.299 \ 0.379$ 12% All Housing Types (Own), 4-5 BR All Values 103,462 0.024 0.821 0.900 5% 0.860 Below Median \$576,679 0.850 68,966 0.029 0.802 0.898 6% Above Median \$576,679 0.880 34,496 0.042 0.810 0.949 8% All Housing Types (Rent), 0-1 BR All Values 0.013 0.093 0.135 18% 0.114 32,613 Below Median \$123,903 0.113 16,344 0.018 0.083 0.142 26% Above Median \$123,903 0.115 16,269 0.018 0.085 0.145 26% All Housing Types (Rent), 2 BR All Values 0.331 27,360 0.025 0.289 0.373 13% Below Median \$164,765 0.477 13.807 0.045 0.404 0.551 15% Above Median \$164,765 0.182 13,553  $0.026 \ 0.140 \ 0.224$ 23% All Housing Types (Rent), 3 BR All Values 0.819 11,446 0.070 0.703 0.934 14% Below Median \$167,567 19% 1.010 5,743 0.115 0.821 1.199 Above Median \$167,567 0.083 0.490 0.763 0.627 5,703 22% All Housing Types (Rent), 4-5 BR All Values 0.894 0.173 0.610 1.179 32% 2,139 Below Median \$218,149 1.077 1,076 0.278 0.619 1.535 42% Above Median \$218,149 0.709 1,063 0.209 0.365 1.053 48%

# PART TWO NEW JERSEY GENERAL APPLICATION RESIDENTIAL MULTIPLIERS:

### **B. STATEWIDE- ALL NEW JERSEY (1990)**

<b>Tables</b>		
II-B-1	Total Persons and Persons by Age	75
II-B-2	School-Age Children.	78
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### TABLE II-B-1 STATEWIDE NEW JERSEY TOTAL PERSONS AND PERSONS BY AGE (1990)

STRUCTURE TYPE/ BEDROOMS/ VALUE /TENURE         TOTAL PERSONS         AGE           Single-Family Detached, 2 BR         2.084         0.089         0.131         0.320         0.173         0.122         0.377         0.678         0.193           Below Median \$112,500         2.023         0.075         0.135         0.328         0.155         0.084         0.336         0.691         0.220           Above Median \$112,500         2.165         0.108         0.126         0.309         0.197         0.173         0.432         0.661         0.158           Single-Family Detached, 3 BR         3.160         0.389         0.610         0.933         0.638         0.270         0.174         0.112         0.034           Below Median \$162,500         3.233         0.437         0.648         1.048         0.590         0.213         0.140         0.120         0.036
VALUE /TENURE         PERSONS         0-4         5-17         18-34         35-44         45-54         55-64         65-74         -75+           Single-Family Detached, 2 BR         2.084         0.089         0.131         0.320         0.173         0.122         0.377         0.678         0.193           Below Median \$112,500         2.023         0.075         0.135         0.328         0.155         0.084         0.336         0.691         0.220           Above Median \$112,500         2.165         0.108         0.126         0.309         0.197         0.173         0.432         0.661         0.158           Single-Family Detached, 3 BR         3.160         0.389         0.610         0.933         0.638         0.270         0.174         0.112         0.034           Below Median \$162,500         3.233         0.437         0.648         1.048         0.590         0.213         0.140         0.120         0.036
Single-Family Detached, 2 BR         All Values       2.084       0.089 0.131       0.320       0.173       0.122       0.377       0.678 0.193         Below Median \$112,500       2.023       0.075 0.135       0.328       0.155       0.084       0.336       0.691 0.220         Above Median \$112,500       2.165       0.108 0.126       0.309       0.197       0.173       0.432       0.661 0.158         Single-Family Detached, 3 BR         All Values       3.160       0.389 0.610       0.933       0.638       0.270       0.174       0.112 0.034         Below Median \$162,500       3.233       0.437 0.648       1.048       0.590       0.213       0.140       0.120 0.036
All Values  Below Median \$112,500  Above Median \$112,500  All Values  Single-Family Detached, 3 BR  All Values  Below Median \$162,500  All Values  3.160  3.208  3.160  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.230  3.
All Values  Below Median \$112,500 Above Median \$112,500 Zingle-Family Detached, 3 BR All Values  Below Median \$162,500  All Values  3.160 3.20 3.20 3.21 3.23 3.23 3.23 3.23 3.23 3.23 3.23
Below Median \$112,500       2.023       0.075 0.135       0.328       0.155       0.084       0.336       0.691 0.220         Above Median \$112,500       2.165       0.108 0.126       0.309       0.197       0.173       0.432       0.661 0.158         Single-Family Detached, 3 BR         All Values       3.160       0.389 0.610       0.933       0.638       0.270       0.174       0.112 0.034         Below Median \$162,500       3.233       0.437 0.648       1.048       0.590       0.213       0.140       0.120 0.036
Above Median \$112,500 Single-Family Detached, 3 BR All Values Below Median \$162,500  2.165 0.108 0.126 0.309 0.197 0.173 0.432 0.661 0.158 0.389 0.610 0.389 0.610 0.933 0.638 0.270 0.174 0.112 0.034 0.432 0.661 0.158 0.389 0.610 0.389 0.610 0.933 0.638 0.270 0.174 0.112 0.034 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180
Single-Family Detached, 3 BR       3.160       0.389 0.610       0.933       0.638       0.270       0.174       0.112 0.034         Below Median \$162,500       3.233       0.437 0.648       1.048       0.590       0.213       0.140       0.120 0.036
All Values 3.160 0.389 0.610 0.933 0.638 0.270 0.174 0.112 0.034 Below Median \$162,500 3.233 0.437 0.648 1.048 0.590 0.213 0.140 0.120 0.036
Below Median \$162,500 3.233 0.437 0.648 1.048 0.590 0.213 0.140 0.120 0.036
Above Median \$162,500 3.043 0.312 0.547 0.747 0.714 0.362 0.230 0.099 0.031
Single-Family Detached, 4-5 BR
All Values 3.840 0.387 1.077 0.734 1.005 0.398 0.143 0.067 0.030
Below Median \$275,000 3.854 0.418 1.075 0.832 0.984 0.314 0.132 0.072 0.027
Above Median \$275,000 3.824 0.347 1.080 0.610 1.031 0.505 0.157 0.061 0.034
Single-Family Attached, 2 BR
All Values 2.061 0.177 0.137 0.879 0.332 0.173 0.168 0.143 0.053
Below Median \$137,500 2.074 0.206 0.165 0.952 0.308 0.134 0.132 0.129 0.049
Above Median \$137,500 2.029 0.106 0.069 0.704 0.389 0.268 0.254 0.176 0.063
Single-Family Attached, 3 BR
All Values 2.764 0.295 0.440 0.935 0.530 0.288 0.186 0.070 0.020
Below Median \$137,500 2.877 0.338 0.534 1.108 0.509 0.218 0.102 0.054 0.014
Above Median \$137,500 2.633 0.245 0.331 0.734 0.554 0.368 0.284 0.088 0.028
Single-Family Attached, 4-5 BR
All Values 3.354 0.313 0.672 1.133 0.542 0.400 0.199 0.075 0.022
Below Median \$162,500 3.426 0.349 0.748 1.236 0.526 0.310 0.161 0.074 0.023
Above Median \$162,500 3.228 0.250 0.538 0.951 0.570 0.559 0.265 0.076 0.019
5+ Units-Own & Rent, 0-1 BR
All Values 1.480 0.071 0.062 0.616 0.176 0.084 0.089 0.191 0.192
Below Median \$57,600 1.370 0.074 0.061 0.320 0.125 0.058 0.090 0.330 0.313
Above Median \$57,600 1.591 0.069 0.064 0.914 0.227 0.109 0.087 0.051 0.071
5+ Units-Own & Rent, 2 BR
All Values 2.128 0.183 0.242 1.021 0.285 0.142 0.104 0.101 0.050
Below Median \$95,000 2.272 0.231 0.360 1.046 0.263 0.119 0.094 0.114 0.045
Above Median \$95,000 1.979 0.133 0.118 0.994 0.307 0.166 0.116 0.089 0.056
5+ Units-Own & Rent, 3 BR
All Values 3.106 0.302 0.737 1.099 0.510 0.253 0.123 0.062 0.021
Below Median \$97,500 3.364 0.406 1.026 1.044 0.513 0.195 0.093 0.061 0.025
Above Median \$97,500   2.837   0.194 0.435   1.156   0.506   0.313   0.154   0.062   0.017

#### TABLE II-B-1 STATEWIDE NEW JERSEY

TOTAL PERSONS AND PERSONS BY AGE (1990) (Continued)

STRUCTURE TYPE/		AGE						
BEDROOMS/	TOTAL							
VALUE /TENURE	PERSONS	0-4	5-17	18-34	35-44	45-54	55-64 65-74	<u>-75+</u>
5+ Units-Own, 0-1 BR								
All Values		0.053	0.036	0.764	0.254	0.178	0.107 0.105	
Below Median \$112,500		0.065	0.023	0.800	0.214	0.158	0.107 0.063	
Above Median \$112,500	1.669	0.032	0.060	0.699	0.324	0.215	0.108 0.179	0.052
5+ Units-Own, 2 BR								
All Values		0.106	0.065	0.903	0.248	0.148	0.134 0.147	
Below Median \$112,500		0.095	0.077	0.918	0.218	0.105	0.130 0.160	
Above Median \$112,500	1.873	0.122	0.050	0.883	0.290	0.205	0.141 0.130	0.052
5+ Units-Own, 3 BR								
All Values	2.728	0.236	0.521	0.828	0.552	0.342	0.169 0.071	0.009
Below Median \$137,500	2.789	0.227	0.673	1.018	0.488	0.263	0.096 0.025	0.000
Above Median \$137,500	2.645	0.249	0.317	0.573	0.638	0.447	0.267 0.132	0.021
5+ Units-Rent, 0-1 BR								
All Values		0.074	0.067	0.591	0.163	0.068	0.086 0.205	
Below Median \$51,300		0.053	0.055	0.238	0.104	0.051	0.095 0.370	
Above Median \$51,300	1.622	0.096	0.078	0.951	0.223	0.085	0.076 0.037	0.077
5+ Units-Rent, 2 BR								
All Values		0.240	0.371	1.107	0.312	0.138	0.082 0.068	0.044
Below Median \$79,600	2.478	0.300	0.490	1.026	0.294	0.134	0.093 0.101	0.039
Above Median \$79,600	2.244	0.179	0.252	1.188	0.329	0.141	0.071 0.035	0.049
5+ Units-Rent, 3 BR								
All Values	3.367	0.347	0.886	1.285	0.481	0.192	0.091 0.055	0.029
Below Median \$81,700	3.800	0.448	1.363	1.000	0.596	0.197	0.102 0.050	0.043
Above Median \$81,700	2.931	0.246	0.405	1.573	0.365	0.187	0.080 0.060	0.016
2-4 Units, 0-1 BR								
All Values		0.127	0.158	0.830	0.245	0.116		
Below Median \$61,800		0.145	0.171	0.733	0.239	0.105	0.089 0.147	0.093
Above Median \$61,800	1.831	0.109	0.144	0.926	0.251	0.128	0.090 0.115	0.069
2-4 Units, 2 BR								
All Values	2.543	0.249	0.419	1.050	0.336	0.224	0.154 0.073	0.037
Below Median \$77,200	2.669	0.294	0.536	1.101	0.331	0.234	0.092 0.051	0.030
Above Median \$77,200	2.417	0.204	0.301	0.999	0.342	0.213	0.217 0.095	0.045
2-4 Units, 3 BR								
All Values	3.514	0.370	0.831	1.126	0.569	0.303	0.196 0.089	0.029
Below Median \$98,000	3.544	0.427	0.931	1.243	0.516	0.231	0.137 0.046	0.012
Above Median \$98,000	3.484	0.313	0.730	1.008	0.623	0.377	0.255 0.133	0.045
2-4 Units, 4-5 BR								
All Values	4.657	0.262	1.448	1.332	0.576	0.605	0.203 0.083	0.148
Below Median \$148,300		0.226	1.483	1.560	0.449	0.472	0.067 0.000	
Above Median \$148,300		0.298	1.412	1.099	0.705	0.740	0.342 0.168	
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## TABLE II-B-1

STATEWIDE NEW JERSEY
TOTAL PERSONS AND PERSONS BY AGE (1990) (Continued)

TOTAL PERSONS AND PERSONS BY AGE (1990) (Continued)								
STRUCTURE TYPE/		<u>AGE</u>						
BEDROOMS/	TOTAL							
VALUE /TENURE	PERSONS	0-4	5-17	18-34	35-44	45-54	55-64	65-74 -75+
All Housing Types (Own), 0-1								
BR								
All Values	1.776			0.794				
Below Median \$112,500	1.698							
Above Median \$112,500	1.918	0.088	0.173	0.764	0.328	0.217	0.157	0.147 0.045
All Housing Types (Own), 2 BR								
All Values	1.985	0.119		0.681				
Below Median \$137,500	1.935	0.122		0.698				
Above Median \$137,500	2.112	0.114	0.088	0.639	0.338	0.266	0.325	0.261 0.082
All Housing Types (Own), 3 BR								
All Values	3.011	0.352		0.907				
Below Median \$162,500	3.072	0.405		1.034				
Above Median \$162,500	2.920	0.273	0.479	0.718	0.662	0.373	0.273	0.110 0.032
All Housing Types (Own), 4-5								
BR								
All Values	3.814			0.738				
Below Median \$275,000	3.810			0.838				
Above Median \$275,000	3.820	0.343	1.078	0.609	1.026	0.506	0.161	0.062 0.035
All Housing Types (Rent), 0-1								
BR								
All Values	1.533	0.088	0.091	0.640	0.185	0.075	0.084	0.185 0.185
Below Median \$53,700	1.401	0.071	0.087	0.325	0.131	0.065	0.095	0.324 0.303
Above Median \$53,700	1.667	0.105	0.096	0.957	0.240	0.086	0.072	0.044 0.066
All Housing Types (Rent), 2 BR								
All Values	2.411	0.253	0.385	1.082	0.330	0.163	0.094	0.067 0.036
Below Median \$79,500	2.520	0.293	0.492	1.052	0.297	0.169		
Above Median \$79,500	2.301	0.214	0.277	1.113	0.364	0.157	0.092	0.046 0.039
All Housing Types (Rent), 3 BR								
All Values	3.340	0.384	0.817	1.164	0.547	0.243	0.111	0.045 0.030
Below Median \$97,500	3.407	0.439	0.947	1.138	0.494	0.199	0.117	0.054 0.021
Above Median \$97,500	3.272	0.327	0.685	1.190	0.601	0.289	0.104	0.035 0.040
All Housing Types (Rent), 4-5 BR								
	4.004	0.405	1 122	1.204	0.695	0.242	0.145	0.045.0.042
All Values Below Median \$108,500		0.405		1.294 1.470				
		0.373		1.470				
Above Median \$108,500	4.102	0.436	0.979	1.112	0.839	0.402	0.225	0.041 0.04/

#### TABLE II-B-2 STATEWIDE NEW JERSEY SCHOOL-AGE CHILDREN (SAC) (1990)

School	TIGE CHIED	KEN (SAC) (I	GRADE	
STRUCTURE TYPE/			Junior High	
BEDROOMS/	TOTAL	Elementary	School	High School
VALUE /TENURE	SAC	(K-6)	(7-9)	(10-12)
Single-Family Detached, 2 BR	0.121	0.005	0.024	0.022
All Values	0.131	0.085		0.023
Below Median \$112,500	0.135			0.024
Above Median \$112,500	0.126	0.081	0.023	0.022
Single-Family Detached, 3 BR	0.610	0.410	0.112	0.000
All Values	0.610			0.088
Below Median \$162,500	0.648	0.440		0.092
Above Median \$162,500	0.547	0.361	0.105	0.081
Single-Family Detached, 4-5 BR				
All Values	1.077			0.203
Below Median \$275,000	1.075			0.194
Above Median \$275,000	1.080	0.625	0.240	0.214
Single-Family Attached, 2 BR				
All Values	0.137	0.081	0.025	0.030
Below Median \$137,500	0.165	0.099		0.035
Above Median \$137,500	0.069			0.018
Single-Family Attached, 3 BR	0.009	0.020	0.015	0.010
All Values	0.440	0.254	0.087	0.099
Below Median \$137,500	0.534			0.111
Above Median \$137,500	0.331	0.175		0.084
Single-Family Attached, 4-5 BR	0.001	0.176	0.075	0.00.
All Values	0.672	0.376	0.146	0.149
Below Median \$162,500	0.748			0.136
Above Median \$162,500	0.538			0.173
5+ Units-Own & Rent, 0-1 BR				
All Values	0.062	0.041	0.011	0.010
Below Median \$57,600	0.062	0.041		0.010
Above Median \$57,600	0.064			0.011
5+ Units-Own & Rent, 2 BR	0.004	0.040	0.014	0.009
All Values	0.242	0.148	0.050	0.044
Below Median \$95,000	0.242			0.044
Above Median \$95,000	0.360			0.062
	0.118	0.074	0.019	0.023
5+ Units-Own & Rent, 3 BR	0.727	0.202	0.150	0.185
All Values	0.737			
Below Median \$97,500	1.026			0.271
Above Median \$97,500	0.435	0.244	0.096	0.095

TABLE II-B-2 STATEWIDE NEW JERSEY SCHOOL-AGE CHILDREN (SAC) (1990) (Continued)

SCHOOL-AC	JE CHILDREN		(Continuea)	
		<u>GRADE</u>		
STRUCTURE TYPE/	TOTAL T		Junior High	*** 1 0 1 1
BEDROOMS/	TOTAL	Elementary	School	High School
VALUE /TENURE	SAC	(K-6)	(7-9)	(10-12)
5+ Units-Own, 0-1 BR	0.006		0.040	0.040
All Values	0.036			0.010
Below Median \$112,500	0.023	0.008		0.003
Above Median \$112,500	0.060	0.007	0.030	0.023
5+ Units-Own, 2 BR				
All Values	0.065	0.045		0.012
Below Median \$112,500	0.077		0.010	0.015
Above Median \$112,500	0.050	0.036	0.006	0.008
5+ Units-Own, 3 BR				
All Values	0.521	0.289	0.127	0.106
Below Median \$137,500	0.673	0.395	0.176	0.102
Above Median \$137,500	0.317	0.147	0.060	0.111
5+ Units-Rent, 0-1 BR				
All Values	0.067	0.046		0.010
Below Median \$51,300	0.055			0.010
Above Median \$51,300	0.078	0.055	0.013	0.010
5+ Units–Rent, 2 BR				
All Values	0.371	0.224	0.081	0.067
Below Median \$79,600	0.490	0.292	0.112	0.086
Above Median \$79,600	0.252	0.156	0.049	0.048
5+ Units-Rent, 3 BR				
All Values	0.886	0.465	0.181	0.239
Below Median \$81,700	1.363	0.659	0.316	0.388
Above Median \$81,700	0.405	0.270	0.046	0.090
2-4 Units, 0-1 BR				
All Values	0.158	0.087	0.037	0.034
Below Median \$61,800	0.138	0.087		0.034
Above Median \$61,800	0.171	0.038		0.041
2-4 Units, 2 BR	0.144	0.070	0.041	0.027
All Values	0.419	0.265	0.070	0.075
				0.075
Below Median \$77,200	0.536			0.098
Above Median \$77,200	0.301	0.182	0.067	0.053
2-4 Units, 3 BR	0.021	0.405	0.102	0.162
All Values	0.831	0.485		0.163
Below Median \$98,000	0.931	0.565		0.146
Above Median \$98,000	0.730	0.404	0.146	0.181
2-4 Units, 4-5 BR	المديدي	^ <b>-</b>	0.465	^ <b>^</b>
All Values	1.448			0.257
Below Median \$148,300	1.483			0.307
Above Median \$148,300	1.412	0.698	0.508	0.206

#### TABLE II-B-2 STATEWIDE NEW JERSEY SCHOOL-AGE CHILDREN (SAC) (1990) (Continued)

**GRADE** STRUCTURE TYPE/ **Junior High TOTAL BEDROOMS/ Elementary** School **High School VALUE /TENURE** SAC (K-6)(7-9)(10-12)All Housing Types (Own), 0-1 BR All Values 0.128 0.068 0.042 0.019 0.104 0.038 Below Median \$112,500 0.055 0.012 Above Median \$112,500 0.173 0.091 0.0480.033 All Housing Types (Own), 2 BR All Values 0.095 0.062 0.015 0.018 Below Median \$137,500 0.098 0.067 0.014 0.018 Above Median \$137,500 0.088 0.048 0.020 0.020 All Housing Types (Own), 3 BR All Values 0.531 0.347 0.100 0.084 Below Median \$162,500 0.565 0.380 0.101 0.085 Above Median \$162,500 0.479 0.298 0.098 0.083All Housing Types (Own), 4-5 BR All Values 1.061 0.629 0.230 0.202 Below Median \$275,000 1.047 0.634 0.222 0.191 Above Median \$275,000 1.078 0.622 0.240 0.215 All Housing Types (Rent), 0-1 BR All Values 0.091 0.059 0.015 0.017 0.087 Below Median \$53,700 0.058 0.012 0.016 Above Median \$53,700 0.096 0.060 0.018 0.018 All Housing Types (Rent), 2 BR All Values 0.385 0.233 0.080 0.072 Below Median \$79,500 0.492 0.297 0.106 0.089 Above Median \$79,500 0.277 0.168 0.053 0.056 All Housing Types (Rent), 3 BR All Values 0.817 0.478 0.165 0.174 Below Median \$97,500 0.947 0.564 0.203 0.179 Above Median \$97,500 0.685 0.390 0.127 0.168 All Housing Types (Rent), 4-5 BR All Values 1.123 0.670 0.240 0.214 Below Median \$108,500 1.262 0.770 0.235 0.257 0.979 Above Median \$108,500 0.565 0.246 0.169

#### TABLE II-B-3 STATEWIDE NEW JERSEY PUBLIC SCHOOL CHILDREN (PSC) (1990)

PUBLIC SCHOOL CHILDREN (PSC) (1990)									
STRUCTURE TYPE/		PUBLIC SCHOOL GRADE Junior High							
BEDROOMS/	TOTAL	Elementary	School	High School					
VALUE /TENURE	PSC	(K-6)	(7-9)	(10-12)					
		. ,							
Single-Family Detached, 2 BR									
All Values	0.103	0.062	0.021	0.020					
Below Median \$112,500	0.102	0.061	0.022	0.020					
Above Median \$112,500	0.104	0.064	0.020	0.020					
Single-Family Detached, 3 BR									
All Values	0.479		0.095	0.075					
Below Median \$162,500	0.513		0.102	0.080					
Above Median \$162,500	0.424	0.269	0.085	0.069					
Single-Family Detached, 4-5									
BR									
All Values	0.841	0.488	0.189	0.163					
Below Median \$275,000	0.855		0.192	0.166					
Above Median \$275,000	0.822	0.476	0.186	0.159					
Single-Family Attached, 2 BR									
All Values	0.110	0.060	0.023	0.026					
Below Median \$137,500	0.135		0.030	0.031					
Above Median \$137,500	0.047		0.008	0.016					
Single-Family Attached, 3 BR									
All Values	0.365	0.208	0.077	0.080					
Below Median \$137,500	0.450	0.268	0.090	0.091					
Above Median \$137,500	0.267	0.139	0.061	0.067					
Single-Family Attached, 4-5									
BR									
All Values	0.495		0.118	0.131					
Below Median \$162,500	0.576		0.156	0.136					
Above Median \$162,500	0.353	0.180	0.051	0.122					
5+ Units-Own & Rent, 0-1 BR									
All Values	0.046	0.031	0.009	0.007					
Below Median \$57,600	0.044		0.007	0.008					
Above Median \$57,600	0.049		0.012	0.005					
5+ Units-Own & Rent, 2 BR									
All Values	0.204	0.121	0.045	0.038					
Below Median \$95,000	0.300	0.175	0.071	0.054					
Above Median \$95,000	0.103	0.064	0.017	0.022					
5+ Units-Own & Rent, 3 BR									
All Values	0.611	0.329	0.135	0.146					
Below Median \$97,500	0.867		0.205	0.207					
Above Median \$97,500	0.343	0.198	0.063	0.083					

#### TABLE II-B-3 STATEWIDE NEW JERSEY

PUBLIC SCHOOL CHILDREN (PSC) (1990) (Continued) PUBLIC SCHOOL GRADE STRUCTURE TYPE/ **Junior High** TOTAL **BEDROOMS/ Elementary School High School** VALUE /TENURE **PSC** (K-6)(7-9)(10-12)5+ Units-Own, 0-1 BR All Values 0.008 0.022 0.012 0.001 Below Median \$112,500 0.022 0.008 0.011 0.002 Above Median \$112,500 0.021 0.007 0.014 0.000 5+ Units-Own, 2 BR All Values 0.051 0.033 0.008 0.010 0.059 Below Median \$112,500 0.036 0.010 0.013 0.040 0.030 Above Median \$112,500 0.004 0.0065+ Units-Own, 3 BR All Values 0.433 0.254 0.087 0.092 Below Median \$137,500 0.568 0.335 0.131 0.102 Above Median \$137,500 0.251 0.147 0.027 0.077 5+ Units-Rent, 0-1 BR All Values 0.051 0.034 0.009 0.007 Below Median \$51,300 0.042 0.029 0.006 0.006 Above Median \$51,300 0.060 0.040 0.012 0.009 5+ Units-Rent, 2 BR 0.185 0.072 0.059 All Values 0.316 Below Median \$79,600 0.420 0.241 0.104 0.075 Above Median \$79,600 0.212 0.129 0.040 0.043 5+ Units-Rent, 3 BR All Values 0.734 0.381 0.169 0.184 Below Median \$81,700 1.145 0.575 0.291 0.278 Above Median \$81,700 0.320 0.185 0.046 0.090 2-4 Units, 0-1 BR All Values 0.134 0.071 0.033 0.031 Below Median \$61.800 0.150 0.086 0.026 0.038 Above Median \$61,800 0.119 0.055 0.041 0.023 2-4 Units, 2 BR All Values 0.342 0.213 0.073 0.056 0.463 0.287 0.089 Below Median \$77,200 0.087 Above Median \$77,200 0.221 0.139 0.059 0.022 2-4 Units, 3 BR All Values 0.655 0.375 0.157 0.123 Below Median \$98,000 0.781 0.452 0.208 0.121 Above Median \$98,000 0.529 0.298 0.106 0.125 2-4 Units, 4-5 BR All Values 0.906 0.510 0.220 0.176 Below Median \$148,300 1.066 0.561 0.247 0.258 Above Median \$148,300 0.743 0.458 0.183 0.103

#### **TABLE II-B-3** STATEWIDE NEW JERSEY

PUBLIC SCHOOL CHILDREN (PSC) (1990) (Continued) **PUBLIC SCHOOL GRADE Junior High** STRUCTURE TYPE/ **TOTAL BEDROOMS/ Elementary** School **High School** VALUE /TENURE **PSC** (K-6)(7-9)(10-12)All Housing Types (Own), 0-1 BR All Values 0.106 0.054 0.038 0.014 0.093 0.044 0.038 Below Median \$112,500 0.011 0.129 Above Median \$112,500 0.072 0.038 0.019 All Housing Types (Own), 2 BR 0.073 All Values 0.044 0.013 0.015 Below Median \$137,500 0.077 0.050 0.013 0.015 Above Median \$137,500 0.031 0.062 0.015 0.016 All Housing Types (Own), 3 BR All Values 0.421 0.266 0.086 0.069 Below Median \$162,500 0.456 0.296 0.089 0.071 Above Median \$162,500 0.369 0.223 0.080 0.067 All Housing Types (Own), 4-5 BR All Values 0.823 0.476 0.185 0.162 Below Median \$275,000 0.827 0.479 0.185 0.163 Above Median \$275,000 0.817 0.473 0.185 0.159 All Housing Types (Rent), 0-1 BR 0.069 All Values 0.042 0.013 0.014 Below Median \$53,700 0.065 0.043 0.010 0.012 Above Median \$53,700 0.074 0.042 0.016 0.016 All Housing Types (Rent), 2 BR All Values 0.324 0.189 0.074 0.061 Below Median \$79,500 0.422 0.244 0.100 0.078 Above Median \$79,500 0.225 0.134 0.046 0.044 All Housing Types (Rent), 3 BR All Values 0.658 0.371 0.144 0.144 Below Median \$97,500 0.768 0.434 0.185 0.149 Above Median \$97,500 0.548 0.308 0.102 0.138 All Housing Types (Rent), 4-5 BR 0.470 All Values 0.872 0.211 0.191 Below Median \$108,500 0.943 0.503 0.222 0.219 Above Median \$108,500 0.799 0.436 0.203

0.159

#### TABLE II-B-4 STATEWIDE NEW JERSEY STATISTICS FOR TOTAL PERSONS (1990)

90% Confidence Interva							
STRUCTURE TYPE/						Error	
BEDROOMS/	TOTAL	Number of	Standard			Margin	
VALUE /TENURE	PERSONS	Households	Error	low	high	as %	
Single-Family Detached, 2 BR							
All Values	2.084	24,492	0.084	1.945	2.223	7%	
Below Median \$112,500	2.023	14,012	0.109	1.844	2.203	9%	
Above Median \$112,500	2.165	10,480	0.134	1.945	2.385	10%	
Single-Family Detached, 3 BR							
All Values	3.160	67,249	0.072	3.041	3.279	4%	
Below Median \$162,500	3.233	41,475	0.094	3.078	3.388	5%	
Above Median \$162,500	3.043	25,774	0.114	2.856	3.230	6%	
Single-Family Detached, 4-5							
BR							
All Values	3.840	85,316	0.076	3.715	3.965	3%	
Below Median \$275,000	3.854	47,804	0.103	3.685	4.022	4%	
Above Median \$275,000	3.824	37,512	0.115	3.634	4.013	5%	
Single-Family Attached, 2 BR							
All Values	2.061	41,076	0.064	1 955	2.167	5%	
Below Median \$137,500	2.074	-			2.201	6%	
Above Median \$137,500	2.029	-			2.223	10%	
Single-Family Attached, 3 BR	2.02)	12,021	0.110	1.055	2.223	10/0	
All Values	2.764	31,050	0.095	2 607	2.921	6%	
Below Median \$137,500	2.877	-			3.100	8%	
Above Median \$137,500	2.633				2.854	8%	
Single-Family Attached, 4-5	2.033	14,417	0.154	2,712	2.054	070	
BR							
All Values	3.354	3,764	0.326	2.819	3.890	16%	
Below Median \$162,500	3.426	-			4.109	20%	
Above Median \$162,500	3.228				4.089	27%	
7100 ve 1410didii \$102,300	3.220	1,501	0.323	2.300	1.00)	2770	
5+ Units-Own & Rent, 0-1							
BR							
All Values	1.480	46,950	0.046	1.405	1.556	5%	
Below Median \$57,600	1.370				1.471	7%	
Above Median \$57,600	1.591				1.705	7%	
5+ Units-Own & Rent, 2 BR	1.571	25,110	0.007	1.1//	1.703	, , 0	
All Values	2.128	39,312	0.068	2.017	2.240	5%	
Below Median \$95,000	2.128				2.437	7%	
Above Median \$95,000	1.979	-			2.129	8%	
5+ Units-Own & Rent, 3 BR	1.579	17,237	0.071	1.029	2.127	670	
All Values	3.106	4,469	0.270	2 647	3.565	15%	
Below Median \$97,500	3.100	-			4.054	21%	
Above Median \$97,500	2.837	-			3.444	21%	
AUDIC Michail \$77,500	2.037	2,100	0.509	2.230	J. <del>144</del>	∠1/0	

TABLE II-B-4 STATEWIDE NEW JERSEY STATISTICS FOR TOTAL PERSONS (1990) (Continued)

STATISTICS FOR TOTAL PERSONS (1990) (Continued) 90% Confidence Interva								
STRUCTURE TYPE/	TOTAL	NI C	C40m.11			Error		
BEDROOMS/	TOTAL	Number of		T	1. 2 - 1.	Margin		
VALUE /TENURE	PERSONS	Households	Error	Low	high	as %		
5+ Units-Own, 0-1 BR	1.545	6.760	0.106	1 2 10	1 554	120/		
All Values	1.547		0.126	1.340	1.754	13%		
Below Median \$112,500	1.479		0.152	1.229	1.729	17%		
Above Median \$112,500	1.669	2,419	0.224	1.300	2.038	22%		
5+ Units-Own, 2 BR								
All Values	1.811	16,652	0.091	1.661	1.962	8%		
Below Median \$112,500	1.766	· /	0.118	1.571	1.960	11%		
Above Median \$112,500	1.873	7,142	0.143	1.637	2.108	13%		
5+ Units-Own, 3 BR								
All Values	2.728	/	0.390	2.085	3.370	24%		
Below Median \$137,500	2.789	· · · · · · · · · · · · · · · · · · ·	0.526	1.924	3.653	31%		
Above Median \$137,500	2.645	778	0.582	1.687	3.603	36%		
5+ Units-Rent, 0-1 BR								
All Values	1.469	/	0.049	1.388	1.550	6%		
Below Median \$51,300	1.318		0.064	1.213	1.424	8%		
Above Median \$51,300	1.622	19,915	0.076	1.497	1.748	8%		
5+ Units–Rent, 2 BR								
All Values	2.361	22,660	0.098	2.201	2.522	7%		
Below Median \$79,600	2.478	11,332	0.144	2.241	2.715	10%		
Above Median \$79,600	2.244	11,328	0.132	2.027	2.462	10%		
5+ Units–Rent, 3 BR								
All Values	3.367	-	0.390	2.726	4.008	19%		
Below Median \$81,700	3.800	1,328	0.613	2.792	4.808	27%		
Above Median \$81,700	2.931	1,317	0.489	2.126	3.736	27%		
2.4 Unite 0.1 DD								
<b>2-4 Units, 0-1 BR</b> All Values	1.777	8,897	0.123	1.575	1.979	11%		
Below Median \$61,800	1.777	· /	0.123	1.373	2.002	16%		
Above Median \$61,800	1.723	4,433	0.170	1.537	2.002	16%		
· · · · · · · · · · · · · · · · · · ·	1.831	4,442	0.179	1.337	2.123	1070		
2-4 Units, 2 BR	2.543	12 404	0.125	2 221	2.766	00/		
All Values		· /	0.135	2.321	2.766	9%		
Below Median \$77,200	2.669		0.199	2.341	2.997	12%		
Above Median \$77,200	2.417	6,677	0.184	2.114	2.719	13%		
2-4 Units, 3 BR	2.514	7.512	0.240	2 1 1 0	2 000	110/		
All Values	3.514	· ·	0.240	3.119	3.908	11%		
Below Median \$98,000	3.544	· ·	0.342	2.981	4.106	16%		
Above Median \$98,000	3.484	3,745	0.338	2.928	4.039	16%		
2-4 Units, 4-5 BR	4 / 5 = =	1 117	0.002	2 225	5 0 <b>5</b> 0	2007		
All Values	4.657	-	0.803	3.335	5.979	28%		
Below Median \$148,300	4.385		1.071	2.623	6.148	40%		
Above Median \$148,300	4.933	553	1.203	2.954	6.912	40%		

TABLE II-B-4 STATEWIDE NEW JERSEY STATISTICS FOR TOTAL PERSONS (1990) (Continued)

STATISTICS FO		1100110 (1)			ence Ir	nterval
STRUCTURE TYPE/						Error
BEDROOMS/	TOTAL	Number of	Standard			Margin
VALUE /TENURE	PERSONS	Households	Error	Low	high	as %
All Housing Types (Own), 0-1 BR						
All Values	1.776	10,973	0.111	1.593	1.958	10%
Below Median \$112,500	1.698	7,110	0.133	1.480	1.916	13%
Above Median \$112,500	1.918	3,863	0.199	1.591	2.246	17%
All Housing Types (Own), 2 BR						
All Values	1.985	74,587	0.046	1.909	2.061	4%
Below Median \$137,500	1.935	53,431	0.053	1.847	2.023	5%
Above Median \$137,500	2.112	21,156	0.092	1.961	2.264	7%
All Housing Types (Own), 3 BR						
All Values	3.011	90,383	0.060	2.913	3.109	3%
Below Median \$162,500	3.072	54,029	0.079	2.942	3.202	4%
Above Median \$162,500	2.920	36,354	0.092	2.768	3.072	5%
All Housing Types (Own), 4-5 BR						
All Values	3.814	87,022	0.075	3.691	3.937	3%
Below Median \$275,000	3.810	48,905	0.100	3.645	3.975	4%
Above Median \$275,000	3.820	38,117	0.114	3.633	4.008	5%
All Housing Types (Rent), 0-1 BR						
All Values	1.533	50,305	0.046	1.458	1.608	5%
Below Median \$53,700	1.401	,			1.500	
Above Median \$53,700	1.667	-		1.552		7%
All Housing Types (Rent), 2 BR		,				
All Values	2.411	43,697	0.071	2.294	2.529	5%
Below Median \$79,500	2.520	-	0.105	2.348	2.693	7%
Above Median \$79,500	2.301	21,697	0.098	2.141	2.461	7%
All Housing Types (Rent), 3 BR		,				
All Values	3.340	19,898	0.141	3.108	3.571	7%
Below Median \$97,500	3.407		0.202	3.074	3.740	10%
Above Median \$97,500	3.272		0.196	2.949	3.595	10%
All Housing Types (Rent), 4-5 BR						
All Values	4.084	3,771	0.388	3.446	4.721	16%
Below Median \$108,500	4.066	1,922	0.541	3.175	4.956	22%
Above Median \$108,500	4.102	1,849	0.556	3.187	5.017	22%

TABLE II-B-5 STATEWIDE NEW JERSEY STATISTICS FOR SCHOOL-AGE CHILDREN (SAC) (1990)

		90% Confidence Interval				
STRUCTURE TYPE/						Error
BEDROOMS/	TOTAL	Number of				Margin
VALUE /TENURE	SAC	Households	Error	low	high	as %
Single-Family Detached, 2 BR						
All Values	0.131			0.110		16%
Below Median \$112,500	0.135			0.107		21%
Above Median \$112,500	0.126	10,480	0.019	0.094	0.158	25%
Single-Family Detached, 3 BR						
All Values	0.610			0.577		5%
Below Median \$162,500	0.648	41,475	0.026	0.605	0.692	7%
Above Median \$162,500	0.547	25,774	0.030	0.498	0.597	9%
Single-Family Detached, 4-5 BR						
All Values	1.077	85,316	0.027	1.033	1.121	4%
Below Median \$275,000	1.075	47,804	0.036	1.017	1.133	5%
Above Median \$275,000	1.080	37,512	0.040	1.013	1.146	6%
Single-Family Attached, 2 BR						
All Values	0.137		0.010	0.120	0.153	12%
Below Median \$137,500	0.165	29,052		0.142		13%
Above Median \$137,500	0.069	12,024	0.013	0.048	0.091	31%
Single-Family Attached, 3 BR						
All Values	0.440	31,050	0.024	0.401	0.479	9%
Below Median \$137,500	0.534	16,633	0.037	0.474	0.594	11%
Above Median \$137,500	0.331	14,417	0.029	0.284	0.379	14%
Single-Family Attached, 4-5 BR						
All Values	0.672	3,764	0.090	0.523	0.820	22%
Below Median \$162,500	0.748	2,400	0.122	0.547	0.949	27%
Above Median \$162,500	0.538	1,364	0.129	0.326	0.750	39%
5+ Units-Own & Rent, 0-1 BR	0.062	46.050	0.006	0.050	0.050	1.00/
All Values	0.062			0.052		16%
Below Median \$57,600	0.061	23,534		0.046		23%
Above Median \$57,600	0.064	23,416	0.009	0.049	0.078	23%
5+ Units-Own & Rent, 2 BR						
All Values	0.242			0.218		10%
Below Median \$95,000	0.360			0.318		12%
Above Median \$95,000	0.118	19,257	0.014	0.096	0.141	19%
5+ Units-Own & Rent, 3 BR						
All Values	0.737			0.591		20%
Below Median \$97,500	1.026		0.158	0.767	1.286	25%
Above Median \$97,500	0.435	2,186	0.088	0.290	0.580	33%

#### TABLE II-B-5 STATEWIDE NEW JERSEY STATISTICS FOR SCHOOL-AGE CHILDREN (SAC) (1990)

STATISTICS FOR SCHOOL-AGE CHILDREN (SAC) (1990)										
				90% Con	fidenc	<u>e</u>				
				<u>Interval</u>						
STRUCTURE TYPE/						Error				
BEDROOMS/	TOTAL	Number of		_		Margin				
VALUE /TENURE	SAC	Households	Error	low	high	as %				
5+ Units-Own, 0-1 BR										
All Values	0.036		0.012			56%				
Below Median \$112,500	0.023	· ·	0.012			87%				
Above Median \$112,500	0.060	2,419	0.027	0.016	0.105	73%				
5+ Units-Own, 2 BR										
All Values	0.065		0.011			27%				
Below Median \$112,500	0.077	9,510	0.015			33%				
Above Median \$112,500	0.050	7,142	0.014	0.027	0.074	46%				
5+ Units-Own, 3 BR										
All Values	0.521	1,824	0.109	0.342	0.701	34%				
Below Median \$137,500	0.673	1,046	0.172	0.391	0.955	42%				
Above Median \$137,500	0.317	778	0.121	0.118	0.517	63%				
5+ Units-Rent, 0-1 BR										
All Values	0.067	40,182	0.007	0.055	0.078	17%				
Below Median \$51,300	0.055	20,267	0.009	0.041	0.070	26%				
Above Median \$51,300	0.078	19,915	0.011	0.060	0.096	23%				
5+ Units-Rent, 2 BR										
All Values	0.371	22,660	0.025	0.331	0.412	11%				
Below Median \$79,600	0.490	11,332	0.042	0.421	0.559	14%				
Above Median \$79,600	0.252	11,328	0.028	0.207	0.298	18%				
5+ Units-Rent, 3 BR										
All Values	0.886	2,645	0.131	0.670	1.102	24%				
Below Median \$81,700	1.363	1,328	0.258	0.939	1.787	31%				
Above Median \$81,700	0.405	1,317	0.109	0.226	0.583	44%				
2-4 Units, 0-1 BR										
All Values	0.158	· ·	0.024			25%				
Below Median \$61,800	0.171		0.035	0.114	0.229	34%				
Above Median \$61,800	0.144	4,442	0.032	0.091	0.196	36%				
2-4 Units, 2 BR										
All Values	0.419	13,404	0.035	0.362	0.476	14%				
Below Median \$77,200	0.536	6,727	0.058	0.441	0.631	18%				
Above Median \$77,200	0.301	6,677	0.040	0.236	0.367	22%				
2-4 Units, 3 BR										
All Values	0.831	7,513	0.074	0.708	0.953	15%				
Below Median \$98,000	0.931	3,768	0.114	0.743	1.119	20%				
Above Median \$98,000	0.730	3,745	0.096	0.572	0.888	22%				
2-4 Units, 4-5 BR										
All Values	1.448	1,116	0.295	0.963	1.933	33%				
Below Median \$148,300	1.483		0.423			47%				
Above Median \$148,300	1.412		0.411			48%				

TABLE II-B-5 STATEWIDE NEW JERSEY

STATISTICS FOR SCHOOL-AGE CHILDREN (SAC) (Continued) (1990) 90% Confidence Interval STRUCTURE TYPE/ **Error BEDROOMS/** TOTAL Number of Standard Margin **VALUE /TENURE** SAC Households low high as % All Housing Types (Own), 0-1 BR All Values 0.128 10,973 0.019 0.097 0.160 24% Below Median \$112,500 0.104 7,110 0.021 0.070 0.139 33% Above Median \$112,500 0.173 3,863 0.038 0.110 0.235 36% All Housing Types (Own), 2 BR All Values 0.095 0.006 0.085 0.106 11% 74,587 Below Median \$137,500 0.098 53,431 0.007 0.086 0.110 12% Above Median \$137,500 0.088 0.011 0.070 0.107 21% 21,156 All Housing Types (Own), 3 BR 5% All Values 0.531 90,383 0.016 0.505 0.556 Below Median \$162,500 0.565 54,029 0.021 0.531 0.600 6% 0.479 Above Median \$162,500 36,354 0.023 0.441 0.517 8% All Housing Types (Own), 4-5 BR 4% All Values 1.061 87.022 0.026 1.018 1.103 Below Median \$275,000 1.047 48,905 0.034 0.991 1.104 5% Above Median \$275,000 1.078 0.040 1.012 1.144 38,117 6% All Housing Types (Rent), 0-1 BR All Values 0.091 50,305 0.007 0.079 0.103 13% Below Median \$53,700 0.087 25,259 0.010 0.070 0.103 19% Above Median \$53,700 0.096 25,046 0.011 0.078 0.113 18% All Housing Types (Rent), 2 BR 0.018 0.355 0.415 8% All Values 0.385 43,697 Below Median \$79,500 0.492 22,000 0.030 0.442 0.542 10% Above Median \$79,500 0.277 21,697 0.021 0.242 0.312 13% All Housing Types (Rent), 3 BR 9% All Values 19,898 0.045 0.742 0.891 0.817 Below Median \$97,500 0.947 10,001 0.071 0.830 1.063 12% Above Median \$97,500 0.685 9,897  $0.056\ 0.592\ 0.778$ 14% All Housing Types (Rent), 4-5 BR 1.123 All Values 0.131 0.907 1.340 19% 3,771 Below Median \$108,500 1.262 1,922 0.201 0.930 1.593 26% Above Median \$108,500 0.979 1,849 0.169 0.701 1.258 28% TABLE II-B-6 STATEWIDE NEW JERSEY STATISTICS FOR PUBLIC SCHOOL CHILDREN (PSC) (1990)

STATISTICS FOR PC	BLIC SC	90% Confidence Interval					
STRUCTURE TYPE/			9070	Comina	ence m		
BEDROOMS/	TOTAL	Number of	Standar			Error Margin	
VALUE /TENURE	PSC	Households		low	high	as %	
VALUE/TENURE	130	Householus	u Elloi	10 W	ıngn	as /0	
Single-Family Detached, 2 BR							
All Values	0.103	24,492	0.016	0.076	0.130	26%	
Below Median \$112,500	0.102		0.022	0.067	0.138		
Above Median \$112,500	0.104	10,480	0.025	0.063	0.146	40%	
Single-Family Detached, 3 BR	0.470	(7.240	0.022	0.441	0.516	00/	
All Values	0.479	,	0.023	0.441	0.516		
Below Median \$162,500	0.513		0.030	0.462	0.563		
Above Median \$162,500	0.424	25,774	0.035	0.367	0.481	13%	
Single-Family Detached, 4-5 BR							
All Values	0.841	· ·	0.029	0.793	0.888		
Below Median \$275,000	0.855		0.039	0.792	0.919		
Above Median \$275,000	0.822	37,512	0.043	0.751	0.892	9%	
Single-Family Attached, 2 BR							
All Values	0.110	41,076	0.013	0.088	0.131	20%	
Below Median \$137,500	0.135	29,052	0.017	0.107	0.164	21%	
Above Median \$137,500	0.047	12,024	0.016	0.021	0.073	55%	
Single-Family Attached, 3 BR							
All Values	0.365	31,050	0.029	0.317	0.413	13%	
Below Median \$137,500	0.450	· ·	0.045	0.376	0.523	16%	
Above Median \$137,500	0.267		0.036	0.208	0.326		
Single-Family Attached, 4-5 BR		, .					
All Values	0.495	3,764	0.099	0.332	0.659	33%	
Below Median \$162,500	0.576	· ·	0.136	0.352	0.800		
Above Median \$162,500	0.353	· ·	0.136	0.130	0.577		
7100ve iviedidii \$102,300	0.555	1,504	0.130	0.150	0.577	0370	
5+ Units-Own & Rent, 0-1 BR							
All Values	0.046	46,950	0.008	0.034	0.059	28%	
Below Median \$57,600	0.044		0.000	0.026	0.062		
Above Median \$57,600	0.044	,	0.011	0.020	0.062		
5+ Units-Own & Rent, 2 BR	0.049	23,410	0.011	0.030	0.007	39/0	
	0.204	20 212	0.010	0.172	0.224	15%	
All Values	0.204	· ·	0.019	0.173	0.234		
Below Median \$95,000	0.300	· ·	0.032	0.247	0.353		
Above Median \$95,000	0.103	19,257	0.019	0.073	0.134	30%	
5+ Units-Own & Rent, 3 BR	0.611	4.460	0.100	0.441	0.501	2001	
All Values	0.611	· ·	0.103	0.441	0.781	28%	
Below Median \$97,500	0.867	· ·	0.180	0.571	1.163		
Above Median \$97,500	0.343	2,186	0.106	0.170	0.517	51%	

TABLE II-B-6 STATEWIDE NEW JERSEY STATISTICS FOR PUBLIC SCHOOL CHILDREN (PSC) (1990) (Continued)

STATISTICS FOR P	UBLIC SCH	OOL CHILD	REN (PSC) (I	990) ((		Confidence
					9070	Interval
STRUCTURE TYPE/						Error
BEDROOMS/	TOTAL	Number of	Standard			Margin
VALUE /TENURE	PSC	Households	Error	low	high	as %
5+ Units-Own, 0-1 BR						45 70
All Values	0.022	6,768	0.014	0.000	0.045	107%
Below Median \$112,500	0.022	/		0.000		134%
Above Median \$112,500	0.021			0.000		180%
5+ Units-Own, 2 BR	0.021	2,112	0.021	0.000	0.000	10070
All Values	0.051	16,652	0.014	0.028	0.073	45%
Below Median \$112,500	0.059			0.026		55%
Above Median \$112,500	0.040			0.020		77%
5+ Units-Own, 3 BR	0.010	7,112	0.017	0.007	0.071	7770
All Values	0.433	1,824	0.132	0.216	0.650	50%
Below Median \$137,500	0.568			0.210		59%
Above Median \$137,500	0.368			0.231		97%
Above Median \$137,300	0.231	//6	0.146	0.000	0.493	9170
5+ Units-Rent, 0-1 BR						
All Values	0.051	40,182	0.009	0.036	0.065	29%
Below Median \$51,300	0.042	20,267	0.011	0.023	0.060	45%
Above Median \$51,300	0.060	19,915	0.014	0.037	0.083	38%
5+ Units-Rent, 2 BR						
All Values	0.316	22,660	0.031	0.265	0.367	16%
Below Median \$79,600	0.420	11,332	0.052	0.334	0.505	20%
Above Median \$79,600	0.212	11,328	0.035	0.154	0.270	28%
5+ Units-Rent, 3 BR						
All Values	0.734	2,645	0.150	0.486	0.981	34%
Below Median \$81,700	1.145	1,328	0.283	0.679	1.610	41%
Above Median \$81,700	0.320	· ·	0.131	0.105	0.535	67%
2.4 U						
<b>2-4 Units, 0-1 BR</b> All Values	0.134	8,897	0.021	0.083	0.106	38%
Below Median \$61,800	0.150			0.073		52%
Above Median \$61,800	0.119	4,442	0.042	0.050	0.187	58%
2-4 Units, 2 BR	0.242	12 404	0.042	0.070	0.410	200/
All Values	0.342			0.272		20%
Below Median \$77,200	0.463			0.346		25%
Above Median \$77,200	0.221	6,677	0.047	0.143	0.299	35%
2-4 Units, 3 BR	0.55					• • • •
All Values	0.655			0.518		21%
Below Median \$98,000	0.781				0.997	28%
Above Median \$98,000	0.529	3,745	0.104	0.358	0.699	32%
2-4 Units, 4-5 BR						
All Values	0.906			0.470		48%
Below Median \$148,300	1.066			0.384		64%
Above Median \$148,300	0.743	553	0.332	0.197	1.289	73%

TABLE II-B-6 STATEWIDE NEW JERSEY STATISTICS FOR PUBLIC SCHOOL CHILDREN (PSC) (1990) (Continued)

STRUCTURE TYPE/BEDROOMS/	STATISTICS FOR PUBLIC	SCHOOL	CHILDREN				
Number of PSC   Number of Households   Number of N				<u>90% (</u>	Confide	ence Int	
VALUE / TENURE				a			
All Housing Types (Own), 0-1 BR         0.106         10.973         0.025 0.065 0.147         39%           Below Median \$112,500         0.093         7,110         0.029 0.045 0.141         51%           Above Median \$112,500         0.129         3,863         0.047 0.053 0.206         59%           All Housing Types (Own), 2 BR         0.073         74,587         0.008 0.060 0.086         18%           Below Median \$137,500         0.077         53,431         0.010 0.062 0.093         20%           Above Median \$137,500         0.062         21,156         0.014 0.039 0.084         36%           All Housing Types (Own), 3 BR         All Housing Types (Own), 3 BR         0.421         90,383         0.018 0.391 0.451         7%           All Values         0.421         90,383         0.018 0.391 0.451         7%           Below Median \$162,500         0.456         54,029         0.025 0.415 0.497         9%           All Values         0.823         87,022         0.028 0.777 0.869         6%           Below Median \$275,000         0.827         48,905         0.038 0.766 0.889         7%           Above Median \$53,700         0.065         25,259         0.013 0.044 0.086         32%           All Values         0.052         <					_		
All Values Below Median \$112,500 Above Median \$112,500 All Housing Types (Own), 2 BR All Values Below Median \$137,500 Above Median \$17,500 All Housing Types (Own), 3 BR All Values Below Median \$162,500 Above Median \$162,500 Above Median \$162,500 Above Median \$162,500 All Housing Types (Own), 4-5 BR All Values Below Median \$275,000 Above Median \$275,000 All Housing Types (Rent), 0-1 BR All Values Below Median \$53,700 Above Median \$79,500 Above Median \$79,500 All Housing Types (Rent), 3 BR All Values Below Median \$79,500 All Housing Types (Rent), 3 BR All Values Below Median \$97,500 Above Median \$97,500 Above Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$108,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$108,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$108,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$108,500		PSC	Households	Error	low	high	as %
Below Median \$112,500							
Above Median \$112,500  All Housing Types (Own), 2 BR  All Values  Below Median \$137,500  All Housing Types (Own), 3 BR  All Values  Below Median \$137,500  All Housing Types (Own), 3 BR  All Values  Below Median \$162,500  Above Median \$162,500  Above Median \$162,500  All Housing Types (Own), 4-5 BR  All Values  Below Median \$275,000  Above Median \$275,000  All Housing Types (Rent), 0-1 BR  All Values  Below Median \$53,700  All Housing Types (Rent), 2 BR  All Values  Below Median \$79,500  All Housing Types (Rent), 3 BR  All Values  Below Median \$79,500  All Housing Types (Rent), 3 BR  All Values  Below Median \$79,500  All Housing Types (Rent), 3 BR  All Values  Below Median \$79,500  All Housing Types (Rent), 4-5 BR  All Values  Below Median \$79,500  All Housing Types (Rent), 4-5 BR  All Values  Below Median \$79,500  All Housing Types (Rent), 4-5 BR  All Values  Below Median \$79,500  All Housing Types (Rent), 4-5 BR  All Values  Below Median \$79,500  All Housing Types (Rent), 4-5 BR  All Values  Below Median \$79,500  All Housing Types (Rent), 4-5 BR  All Values  Below Median \$79,500  All Housing Types (Rent), 4-5 BR  All Values  Below Median \$170,500  All Housing Types (Rent), 4-5 BR  All Values  Below Median \$170,500  All Housing Types (Rent), 4-5 BR  All Values  Below Median \$170,500  All Housing Types (Rent), 4-5 BR  All Values  Below Median \$170,500  All Housing Types (Rent), 4-5 BR  All Values  Below Median \$170,500  All Housing Types (Rent), 4-5 BR  All Values  Below Median \$10,500  All Housing Types (Rent), 4-5 BR  All Values  Below Median \$108,500  All Housing Types (Rent), 4-5 BR  All Values  Below Median \$108,500  All Housing Types (Rent), 4-5 BR  All Values  Below Median \$108,500  All Housing Types (Rent), 4-5 BR  All Values  Below Median \$108,500			-				
All Housing Types (Own), 2 BR All Values Below Median \$137,500 Above Median \$137,500 All Housing Types (Own), 3 BR All Values Below Median \$137,500 All Housing Types (Own), 3 BR All Values Below Median \$162,500 Above Median \$162,500 Above Median \$162,500 All Housing Types (Own), 4-5 BR All Values Below Median \$275,000 Above Median \$275,000 Above Median \$275,000 Above Median \$53,700 All Housing Types (Rent), 0-1 BR All Values Below Median \$53,700 Above Median \$53,700 Above Median \$79,500 All Housing Types (Rent), 2 BR All Values Below Median \$79,500 All Housing Types (Rent), 3 BR All Values Below Median \$79,500 All Housing Types (Rent), 3 BR All Values Below Median \$79,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 All Housing Types (Rent), 3 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$108,500							
All Values Below Median \$137,500 Above Median \$137,500 All Housing Types (Own), 3 BR All Values Below Median \$162,500 Above Median \$162,500 All Housing Types (Own), 4-5 BR All Values Below Median \$275,000 Above Median \$275,000 Above Median \$53,700 Above Median \$53,700 All Housing Types (Rent), 2 BR All Values Below Median \$53,700 All Housing Types (Rent), 2 BR All Values Below Median \$79,500 Above Median \$79,500 All Housing Types (Rent), 3 BR All Values Below Median \$79,500 All Housing Types (Rent), 3 BR All Housing Types (Rent), 3 BR All Housing Types (Rent), 3 BR All Housing Types (Rent), 4-5 BR All Walues Below Median \$79,500 All Housing Types (Rent), 3 BR All Housing Types (Rent), 3 BR All Housing Types (Rent), 4-5 BR All Walues Below Median \$79,500 All Housing Types (Rent), 3 BR All Housing Types (Rent), 4-5 BR All Walues Below Median \$97,500 Above Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 Above Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$108,500		0.129	3,863	0.047	0.053	0.206	59%
Below Median \$137,500 Above Median \$137,500 All Housing Types (Own), 3 BR All Values Below Median \$162,500 Above Median \$162,500 All Housing Types (Own), 4-5 BR All Values Below Median \$275,000 Above Median \$275,000 All Housing Types (Rent), 0-1 BR All Values Below Median \$3,700 Above Median \$3,700 All Housing Types (Rent), 2 BR All Values Below Median \$79,500 All Housing Types (Rent), 3 BR All Values Below Median \$79,500 All Housing Types (Rent), 3 BR All Values Below Median \$79,500 All Housing Types (Rent), 3 BR All Values Below Median \$79,500 All Housing Types (Rent), 3 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$108,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$108,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$108,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$108,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$108,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$108,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$108,500	All Housing Types (Own), 2 BR						
Above Median \$137,500  All Housing Types (Own), 3 BR  All Values  Below Median \$162,500  Above Median \$162,500  All Housing Types (Own), 4-5 BR  All Values  Below Median \$275,000  Above Median \$275,000  Above Median \$275,000  Above Median \$275,000  All Housing Types (Rent), 0-1 BR  All Values  Below Median \$53,700  Above Median \$53,700  All Housing Types (Rent), 2 BR  All Values  Below Median \$79,500  All Housing Types (Rent), 3 BR  All Values  Below Median \$79,500  All Housing Types (Rent), 3 BR  All Values  Below Median \$79,500  All Housing Types (Rent), 3 BR  All Values  Below Median \$97,500  All Housing Types (Rent), 4-5 BR  All Values  Below Median \$97,500  All Housing Types (Rent), 3 BR  All Values  Below Median \$97,500  All Housing Types (Rent), 4-5 BR  All Values  Below Median \$97,500  Above Median \$97,500  All Housing Types (Rent), 4-5 BR  All Values  Below Median \$97,500  All Housing Types (Rent), 4-5 BR  All Values  Below Median \$97,500  All Housing Types (Rent), 4-5 BR  All Values  Below Median \$97,500  All Housing Types (Rent), 4-5 BR  All Values  Below Median \$97,500  All Housing Types (Rent), 4-5 BR  All Values  Below Median \$97,500  All Housing Types (Rent), 4-5 BR  All Values  Below Median \$108,500  All Housing Types (Rent), 4-5 BR  All Values  Below Median \$108,500  All Housing Types (Rent), 4-5 BR  All Values  Below Median \$108,500  All Housing Types (Rent), 4-5 BR  All Values  Below Median \$108,500  All Housing Types (Rent), 4-5 BR  All Values  Below Median \$108,500  All Housing Types (Rent), 4-5 BR  All Values  Below Median \$108,500			-				
All Housing Types (Own), 3 BR All Values  Below Median \$162,500 Above Median \$162,500 All Housing Types (Own), 4-5 BR All Values  Below Median \$275,000 Above Median \$275,000 Above Median \$275,000 All Housing Types (Rent), 0-1 BR All Values  Below Median \$53,700 Above Median \$53,700 All Housing Types (Rent), 2 BR All Values  Below Median \$79,500 All Housing Types (Rent), 3 BR All Values  Below Median \$79,500 All Housing Types (Rent), 3 BR All Values  Below Median \$79,500 All Housing Types (Rent), 3 BR All Values  Below Median \$79,500 All Housing Types (Rent), 3 BR All Values  Below Median \$79,500 All Housing Types (Rent), 3 BR All Values  Below Median \$79,500 All Housing Types (Rent), 3 BR All Values  Below Median \$79,500 All Housing Types (Rent), 3 BR All Values  Below Median \$79,500 All Housing Types (Rent), 3 BR All Values  Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values  Below Median \$79,500 All Housing Types (Rent), 4-5 BR All Values  Below Median \$108,500  All Housing Types (Rent), 4-5 BR All Values  Below Median \$108,500  All Housing Types (Rent), 4-5 BR All Values  Below Median \$108,500  All Housing Types (Rent), 4-5 BR All Values  Below Median \$108,500  All Housing Types (Rent), 4-5 BR All Values  Below Median \$108,500  All Housing Types (Rent), 4-5 BR All Values  Below Median \$108,500  All Housing Types (Rent), 4-5 BR All Values  Below Median \$108,500	Below Median \$137,500	0.077	53,431	0.010	0.062	0.093	20%
All Values Below Median \$162,500 Above Median \$162,500 All Housing Types (Own), 4-5 BR All Values Below Median \$275,000 Above Median \$275,000 All Housing Types (Rent), 0-1 BR All Values Below Median \$53,700 Above Median \$53,700 All Housing Types (Rent), 2 BR All Values Below Median \$79,500 All Housing Types (Rent), 3 BR All Values Below Median \$79,500 Above Median \$79,500 All Housing Types (Rent), 3 BR All Values Below Median \$79,500 All Housing Types (Rent), 3 BR All Values Below Median \$97,500 All Housing Types (Rent), 3 BR All Values Below Median \$97,500 Above Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$108,500  All Housing Types (Rent), 4-5 BR All Values Below Median \$108,500  All Housing Types (Rent), 4-5 BR All Values Below Median \$108,500  All Housing Types (Rent), 4-5 BR All Values Below Median \$108,500	Above Median \$137,500	0.062	21,156	0.014	0.039	0.084	36%
Below Median \$162,500 Above Median \$162,500 All Housing Types (Own), 4-5 BR All Values Below Median \$275,000 Above Median \$275,000  All Housing Types (Rent), 0-1 BR All Values Below Median \$53,700 Above Median \$53,700 All Housing Types (Rent), 2 BR All Values Below Median \$79,500 All Housing Types (Rent), 3 BR All Values Below Median \$79,500 All Housing Types (Rent), 3 BR All Values Below Median \$97,500 All Housing Types (Rent), 3 BR All Values Below Median \$97,500 All Housing Types (Rent), 3 BR All Values Below Median \$97,500 Above Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$108,500  Description of the series o	All Housing Types (Own), 3 BR						
Above Median \$162,500 All Housing Types (Own), 4-5 BR All Values Below Median \$275,000 Above Median \$275,000 All Housing Types (Rent), 0-1 BR All Values Below Median \$53,700 Above Median \$53,700 All Housing Types (Rent), 2 BR All Values Below Median \$79,500 All Housing Types (Rent), 3 BR All Values Below Median \$79,500 Above Median \$79,500 All Housing Types (Rent), 3 BR All Values Below Median \$79,500 All Housing Types (Rent), 3 BR All Values Below Median \$79,500 All Housing Types (Rent), 3 BR All Values Below Median \$97,500 All Housing Types (Rent), 3 BR All Values Below Median \$97,500 All Housing Types (Rent), 3 BR All Values Below Median \$97,500 Above Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$108,500  All Housing Types (Rent), 4-5 BR All Values Below Median \$108,500  All Housing Types (Rent), 4-5 BR All Values Below Median \$108,500	All Values	0.421	90,383	0.018	0.391	0.451	7%
All Housing Types (Own), 4-5 BR All Values Below Median \$275,000 Above Median \$275,000  All Housing Types (Rent), 0-1 BR All Values Below Median \$53,700 Above Median \$53,700 All Housing Types (Rent), 2 BR All Values Below Median \$79,500 All Housing Types (Rent), 3 BR All Values Below Median \$79,500 All Housing Types (Rent), 3 BR All Values Below Median \$79,500 All Housing Types (Rent), 3 BR All Values Below Median \$97,500 All Housing Types (Rent), 3 BR All Values Below Median \$97,500 All Housing Types (Rent), 3 BR All Values Below Median \$97,500 Above Median \$97,500 Above Median \$97,500 All Housing Types (Rent), 3 BR All Values Below Median \$97,500 Above Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$108,500  All Housing Types (Rent), 4-5 BR All Values Below Median \$108,500  All Housing Types (Rent), 4-5 BR All Values Below Median \$108,500	Below Median \$162,500	0.456	54,029	0.025	0.415	0.497	9%
All Values Below Median \$275,000 All Housing Types (Rent), 0-1 BR All Values Below Median \$53,700 All Housing Types (Rent), 2 BR All Values Below Median \$79,500 All Housing Types (Rent), 3 BR All Values Below Median \$79,500 Above Median \$97,500 All Housing Types (Rent), 3 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 Above Median \$	Above Median \$162,500	0.369	36,354	0.027	0.325	0.413	12%
Below Median \$275,000       0.827       48,905       0.038 0.766 0.889       7%         Above Median \$275,000       0.817       38,117       0.042 0.747 0.887       9%         All Housing Types (Rent), 0-1 BR       0.069       50,305       0.009 0.054 0.085       22%         Below Median \$53,700       0.065       25,259       0.013 0.044 0.086       32%         Above Median \$53,700       0.074       25,046       0.014 0.052 0.097       30%         All Housing Types (Rent), 2 BR       0.324       43,697       0.023 0.287 0.362       12%         Above Median \$79,500       0.422       22,000       0.037 0.361 0.484       15%         Above Median \$79,500       0.225       21,697       0.026 0.181 0.268       19%         All Housing Types (Rent), 3 BR       0.658       19,898       0.051 0.574 0.743       13%         Above Median \$97,500       0.548       9,897       0.065 0.441 0.655       20%         All Housing Types (Rent), 4-5 BR       0.872       3,771       0.141 0.641 1.104       26%         All Values       0.943       1,922       0.207 0.603 1.284       36%	All Housing Types (Own), 4-5 BR						
All Housing Types (Rent), 0-1 BR All Values Below Median \$53,700 All Housing Types (Rent), 2 BR All Values  Below Median \$79,500 Above Median \$79,500 All Housing Types (Rent), 3 BR All Values Below Median \$97,500 All Housing Types (Rent), 3 BR All Values Below Median \$97,500 All Housing Types (Rent), 3 BR All Values Below Median \$97,500 All Housing Types (Rent), 3 BR All Values Below Median \$97,500 All Housing Types (Rent), 3 BR All Values Below Median \$97,500 All Housing Types (Rent), 3 BR All Values Below Median \$97,500 Above Median \$97,500 Above Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$108,500  0.817  38,117  0.042 0.747 0.887 9%  0.009 0.054 0.085 22% 0.013 0.044 0.086 32% 0.014 0.052 0.097 30% 0.025 0.026 0.181 0.268 19% 0.051 0.574 0.743 13% 0.658 0.768 0.768 10,001 0.080 0.637 0.899 17% Above Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$108,500 0.872 0.871 0.141 0.641 1.104 26% Below Median \$108,500	All Values	0.823	87,022	0.028	0.777	0.869	6%
All Housing Types (Rent), 0-1 BR All Values Below Median \$53,700 Above Median \$53,700 All Housing Types (Rent), 2 BR All Values Below Median \$79,500 Above Median \$79,500 All Housing Types (Rent), 3 BR All Values Below Median \$97,500 All Housing Types (Rent), 3 BR All Values Below Median \$97,500 All Housing Types (Rent), 3 BR All Values Below Median \$97,500 All Housing Types (Rent), 3 BR All Values Below Median \$97,500 Above Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$108,500  0.872 3,771 0.141 0.641 1.104 26% Below Median \$108,500  0.943 1,922 0.207 0.603 1.284	Below Median \$275,000	0.827	48,905	0.038	0.766	0.889	7%
All Values Below Median \$53,700 Above Median \$53,700 All Housing Types (Rent), 2 BR All Values Below Median \$79,500 All Housing Types (Rent), 3 BR All Values Below Median \$97,500 All Values Below Median \$97,500 All Housing Types (Rent), 3 BR All Values Below Median \$97,500 All Housing Types (Rent), 3 BR All Values Below Median \$97,500 All Housing Types (Rent), 3 BR All Values Below Median \$97,500 Above Median \$97,500 Above Median \$97,500 Above Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$108,500  All Housing Types (Rent), 4-5 BR All Values Below Median \$108,500  D.009	Above Median \$275,000	0.817	38,117	0.042	0.747	0.887	9%
All Values Below Median \$53,700 Above Median \$53,700 All Housing Types (Rent), 2 BR All Values Below Median \$79,500 All Housing Types (Rent), 3 BR All Values Below Median \$97,500 All Values Below Median \$97,500 All Housing Types (Rent), 3 BR All Values Below Median \$97,500 All Housing Types (Rent), 3 BR All Values Below Median \$97,500 All Housing Types (Rent), 3 BR All Values Below Median \$97,500 Above Median \$97,500 Above Median \$97,500 Above Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$97,500 All Housing Types (Rent), 4-5 BR All Values Below Median \$108,500  0.069 0.069 0.013 0.044 0.052 0.027 0.023 0.287 0.362 0.037 0.361 0.484 0.268 0.051 0.574 0.743 0.369 0.548 0.872 0.872 0.871 0.141 0.641 1.104 0.666 0.872 0.943 0.943 0.943 0.922 0.207 0.603 0.244 0.855	All Housing Types (Rent), 0-1 BR						
Below Median \$53,700       0.065       25,259       0.013 0.044 0.086       32%         Above Median \$53,700       0.074       25,046       0.014 0.052 0.097       30%         All Housing Types (Rent), 2 BR       0.324       43,697       0.023 0.287 0.362       12%         Below Median \$79,500       0.422       22,000       0.037 0.361 0.484       15%         All Housing Types (Rent), 3 BR       0.658       19,898       0.051 0.574 0.743       13%         Below Median \$97,500       0.768       10,001       0.080 0.637 0.899       17%         Above Median \$97,500       0.548       9,897       0.065 0.441 0.655       20%         All Housing Types (Rent), 4-5 BR       0.872       3,771       0.141 0.641 1.104       26%         Below Median \$108,500       0.943       1,922       0.207 0.603 1.284       36%		0.069	50.305	0.009	0.054	0.085	22%
Above Median \$53,700 All Housing Types (Rent), 2 BR All Values Below Median \$79,500 All Housing Types (Rent), 3 BR All Values  All Values  O.324 All Housing Types (Rent), 3 BR All Values  Below Median \$97,500 All Housing Types (Rent), 3 BR All Values  Below Median \$97,500 Above Median \$97,500 All Housing Types (Rent), 4-5 BR All Values  O.872 Below Median \$108,500  O.074  O.001 O.002 O.023 O.287 O.362 O.037 O.361 O.484 O.026 O.181 O.268 O.051 O.574 O.743 O.080 O.637 O.899 O.065 O.441 O.655 O.658 O.6							
All Housing Types (Rent), 2 BR All Values  Below Median \$79,500  Above Median \$79,500  All Housing Types (Rent), 3 BR All Values  Below Median \$97,500  All Values  Below Median \$97,500  Above Median \$97,500  All Housing Types (Rent), 4-5 BR All Values  Below Median \$108,500  Description of the property			· /				
All Values  Below Median \$79,500  Above Median \$79,500  All Housing Types (Rent), 3 BR  All Values  Below Median \$97,500  All Walues  Below Median \$97,500  All Values  Below Median \$97,500  Above Median \$97,500  All Housing Types (Rent), 4-5 BR  All Values  Below Median \$108,500  All Housing Types (Rent), 4-5 BR  All Values  Description:  0.324  43,697  0.023  0.287  0.361  0.484  15%  0.026  0.181  0.268  19%  19%  19%  19%  19%  19%  19%  19	· · · · · · · · · · · · · · · · · · ·		. ,				
Below Median \$79,500       0.422       22,000       0.037 0.361 0.484       15%         Above Median \$79,500       0.225       21,697       0.026 0.181 0.268       19%         All Housing Types (Rent), 3 BR       0.658       19,898       0.051 0.574 0.743       13%         Below Median \$97,500       0.768       10,001       0.080 0.637 0.899       17%         Above Median \$97,500       0.548       9,897       0.065 0.441 0.655       20%         All Housing Types (Rent), 4-5 BR       0.872       3,771       0.141 0.641 1.104       26%         Below Median \$108,500       0.943       1,922       0.207 0.603 1.284       36%	<b>3 62</b>	0.324	43,697	0.023	0.287	0.362	12%
Above Median \$79,500  All Housing Types (Rent), 3 BR  All Values  Below Median \$97,500  Above Median \$97,500  Above Median \$97,500  Above Median \$97,500  All Housing Types (Rent), 4-5 BR  All Values  0.872  Below Median \$108,500  0.225  21,697  0.026 0.181 0.268  19%  0.051 0.574 0.743  13%  0.080 0.637 0.899  17%  0.065 0.441 0.655  20%  0.872  3,771  0.141 0.641 1.104  26%  0.943  1,922  0.207 0.603 1.284	Below Median \$79,500			0.037	0.361	0.484	15%
All Housing Types (Rent), 3 BR       0.658       19,898       0.051 0.574 0.743       13%         Below Median \$97,500       0.768       10,001       0.080 0.637 0.899       17%         Above Median \$97,500       0.548       9,897       0.065 0.441 0.655       20%         All Housing Types (Rent), 4-5 BR         All Values       0.872       3,771       0.141 0.641 1.104       26%         Below Median \$108,500       0.943       1,922       0.207 0.603 1.284       36%							
All Values 0.658 19,898 0.051 0.574 0.743 13% Below Median \$97,500 0.768 10,001 0.080 0.637 0.899 17% Above Median \$97,500 0.548 9,897 0.065 0.441 0.655 20% All Housing Types (Rent), 4-5 BR All Values 0.872 3,771 0.141 0.641 1.104 26% Below Median \$108,500 0.943 1,922 0.207 0.603 1.284 36%			,				
Below Median \$97,500       0.768       10,001       0.080 0.637 0.899       17%         Above Median \$97,500       0.548       9,897       0.065 0.441 0.655       20%         All Housing Types (Rent), 4-5 BR       0.872       3,771       0.141 0.641 1.104       26%         Below Median \$108,500       0.943       1,922       0.207 0.603 1.284       36%	0 11	0.658	19,898	0.051	0.574	0.743	13%
Above Median \$97,500 0.548 9,897 0.065 0.441 0.655 20%  All Housing Types (Rent), 4-5 BR  All Values 0.872 3,771 0.141 0.641 1.104 26%  Below Median \$108,500 0.943 1,922 0.207 0.603 1.284 36%	Below Median \$97.500		· /				
All Housing Types (Rent), 4-5 BR All Values  Below Median \$108,500  0.872  0.872  3,771  0.141 0.641 1.104  26%  1,922  0.207 0.603 1.284  36%			/				
All Values 0.872 3,771 0.141 0.641 1.104 26% Below Median \$108,500 0.943 1,922 0.207 0.603 1.284 36%			,				
Below Median \$108,500 0.943 1,922 0.207 0.603 1.284 36%		0.872	3,771	0.141	0.641	1.104	26%
			/				
	Above Median \$108,500						

## PART TWO NEW JERSEY GENERAL APPLICATION RESIDENTIAL MULTIPLIERS:

### C. NORTHERN NEW JERSEY<sup>1</sup> (2000)

<b>Tables</b>		
II-C-1	Total Persons and Persons by Age	94
II-C-2	School-Age Children	96
II-C-3	Public School Children	98
II-C-4	Total Persons (statistics)	100
II-C-5	School-Age Children (statistics)	102
II-C-6	Public School Children (statistics).	104

<sup>1</sup> Bergen, Essex, Hudson, Morris, Passaic, Sussex, and Union counties.

TABLE II-C-1 NORTH REGION OF NEW JERSEY TOTAL PERSONS AND PERSONS BY AGE

STRUCTURE TYPE/	тоты				<u>A</u>	<u>GE</u>			
BEDROOMS/ VALUE /TENURE	TOTAL PERSONS	0-4	5-17	18-34	35-44	45-54	55-64	65-74	-75+
Single-Family Detached, 2-3 BR									
All Values	3.137	0.327							0.060
Below Median \$370,722	3.213	0.341							0.066
Above Median \$370,722	2.974	0.297	0.527	0.569	0.709	0.465	0.251	0.108	0.048
Single-Family Detached, 4-5 BR									
All Values	3.809	0.433							0.043
Below Median \$741,444	3.728	0.445	0.981			0.429	0.157		0.041
Above Median \$741,444	3.940	0.414	1.220	0.394	0.965	0.663	0.168	0.071	0.045
Single-Family Attached, 2-3 BR									
All Values	2.477	0.214	0.296	0.628	0.452	0.388	0.284	0.132	0.083
Below Median \$370,722	2.539	0.227	0.356	0.690	0.505	0.379	0.213	0.110	0.059
Above Median \$370,722	2.364	0.191	0.186	0.515	0.356	0.405	0.412	0.174	0.126
Single-Family Attached, 4-5 BR									
All Values	3.520	0.207	0.947	0.626	0.658	0.686	0.188	0.179	0.029
Below Median \$576,679	3.954	0.343	1.163	0.683	0.863	0.629	0.147	0.089	0.038
Above Median \$576,679	2.858	0.000	0.618	0.539	0.345	0.773	0.252	0.315	0.015
5+ Units-Own & Rent, 0-1 BR									
All Values	1.555	0.061	0.092	0.601	0.256	0.121	0.086	0.138	0.200
Below Median \$139,391	1.512	0.077							0.239
Above Median \$139,391	1.597	0.046							0.160
5+ Units-Own & Rent, 2-3 BR									
All Values	2.262	0.176	0.308	0.756	0.356	0.246	0.160	0.126	0.134
Below Median \$227,870	2.526	0.260	0.516	0.759	0.403	0.246	0.136	0.089	0.117
Above Median \$227,870		0.093							0.151
2-4 Units, 0-1 BR									
All Values	2 056	0 185	0.227	7 0.674	1 0.393	0.210	0.137	0 105	0.125
Below Median \$124,563		0.171							0.123
Above Median \$124,563	2.224								0.133
2-4 Units, 2-3 BR	2.224	0.200	0.200	0.702	0.590	0.200	0.11/	0.043	0.11/
All Values	3.231	0.262	0.675	5 1.054	0.624	0.304	0.168	s n non	0.054
Below Median \$181,242		0.202							0.034
Above Median \$181,242		0.312							0.039
	3.103	0.211	0.510	1.025	0.020	, 0.501	. 0.231	. 0.11/	0.070

#### TABLE II-C-1 NORTH REGION OF NEW JERSEY TOTAL PERSONS AND PERSONS BY AGE (Continued)

STRUCTURE TYPE/ BEDROOMS/	TOTAL	AGE							
VALUE /TENURE	PERSONS	0-4	5-17	18-34	35-44	45-54	55-64	65-74	<b>-75</b> +
All Housing Types (Own), 0-1 BR									
All Values	2.039	0.134	0.217	0.510	0.457	0.223	0.180	0.153	0.165
Below Median \$226,552	1.785	0.138	0.144	0.493	0.392	0.175	0.143	0.139	0.161
Above Median \$226,552	2.359	0.130	0.309	0.531	0.540	0.283	0.227	0.172	0.169
All Housing Types (Own), 2-3 BR									
All Values	2.587	0.207	0.356	0.610	0.523	0.390	0.251	0.152	0.099
Below Median \$370,722	2.571	0.206	0.376	0.630	0.553	0.371	0.195	0.143	0.096
Above Median \$370,722	2.616	0.209	0.318	0.571	0.467	0.426	0.355	0.167	0.104
All Housing Types (Own),4-5 BR									
All Values	3.792	0.429	1.044	0.542	0.964	0.532	0.160	0.074	0.046
Below Median \$741,444	3.714	0.445	0.945	0.631	0.973	0.449	0.154	0.071	0.046
Above Median \$741,444	3.920	0.404	1.205	0.399	0.951	0.667	0.170	0.079	0.045
All Housing Types (Rent), 0-1 BR									
All Values	1.675	0.085	0.140	0.634	0.287	0.138	0.085	0.126	0.179
Below Median \$126,870	1.617	0.095	0.179	0.401	0.250	0.146	0.099	0.214	0.234
Above Median \$126,870	1.733	0.075	0.101	0.868	0.325	0.130	0.071	0.037	0.125
All Housing Types (Rent), 2-3 BR									
All Values	2.894	0.281	0.577	1.039	0.498	0.229	0.134	0.068	0.068
Below Median \$159,328	3.152	0.351	0.788	1.013	0.498	0.264	0.130	0.065	0.043
Above Median \$159,328	2.633	0.211	0.365	1.065	0.497	0.193	0.138	0.072	0.092
All Housing Types (Rent), 4-5 BR									
All Values	4.418	0.343	1.419	1.100	0.889	0.413	0.118	0.090	0.048
Below Median \$185,361	4.903	0.394	1.623	1.305	1.036	0.361	0.110	0.034	0.040
Above Median \$185,361	3.931	0.292	1.214	0.893	0.740	0.465	0.125	0.145	0.056

TABLE II-C-2 NORTH REGION OF NEW JERSEY SCHOOL-AGE CHILDREN (SAC)

STRUCTURE TYPE/ BEDROOMS/ VALUE/TENURE	TOTAL SAC	Elementary (K-6)	GRADE Junior High School (7-9)	High School (10-12)
		, ,	` '	
Single-Family Detached, 2-3 BR	0.605	0.240	0.120	0.110
All Values	0.607	0.349		0.119
Below Median \$370,722	0.644	0.359		0.135
Above Median \$370,722	0.527	0.328	0.113	0.086
Single-Family Detached, 4-5 BR	1.072	0.606	0.215	0.162
All Values	1.072	0.696	0.215	0.162
Below Median \$741,444	0.981	0.637	0.201	0.143
Above Median \$741,444	1.220	0.791	0.237	0.192
Single-Family Attached, 2-3 BR				
All Values	0.296	0.163	0.064	0.068
Below Median \$370,722	0.356	0.198	0.084	0.074
Above Median \$370,722	0.186	0.100	0.028	0.058
Single-Family Attached, 4-5 BR				
All Values	0.947	0.440	0.255	0.252
Below Median \$576,679	1.163	0.659	0.214	0.290
Above Median \$576,679	0.618	0.106	0.318	0.194
5+ Units-Own & Rent, 0-1 BR				
All Values	0.092	0.061	0.016	0.016
Below Median \$139,391	0.136	0.097	0.021	0.017
Above Median \$139,391	0.048	0.024	0.010	0.014
5+ Units-Own & Rent, 2-3 BR				
All Values	0.308	0.188	0.067	0.053
Below Median \$227,870	0.516	0.312	0.114	0.089
Above Median \$227,870	0.099	0.063	0.019	0.017
2-4 Units, 0-1 BR				
All Values	0.227	0.158	0.037	0.032
Below Median \$124,563	0.175	0.143	0.021	0.011
Above Median \$124,563	0.280	0.173	0.053	0.053
2-4 Units, 2-3 BR	0.200	0.173	0.023	0.000
All Values	0.675	0.408	0.146	0.121
Below Median \$181,242	0.829	0.487	0.192	0.150
Above Median \$181,242	0.518	0.327	0.099	0.092

TABLE II-C-2 NORTH REGION OF NEW JERSEY SCHOOL-AGE CHILDREN (SAC) (Continued)

STRUCTURE TYPE/ BEDROOMS/ VALUE /TENURE	TOTAL SAC	Elementary (K-6)	GRADE Junior High School (7-9)	High School (10-12)
All Housing Types (Own), 0-1 BR				
All Values	0.217	0.154	0.041	0.022
Below Median \$226,552	0.144	0.111	0.022	0.010
Above Median \$226,552	0.309	0.208	0.065	0.036
All Housing Types (Own), 2-3 BR				
All Values	0.356	0.208	0.078	0.069
Below Median \$370,722	0.376	0.219	0.088	0.069
Above Median \$370,722	0.318	0.189	0.060	0.069
All Housing Types (Own),4-5 BR				
All Values	1.044	0.673	0.211	0.160
Below Median \$741,444	0.945	0.609	0.196	0.140
Above Median \$741,444	1.205	0.776	0.237	0.193
All Housing Types (Rent), 0-1 BR				
All Values	0.140	0.089	0.025	0.025
Below Median \$126,870	0.179	0.128	0.027	0.024
Above Median \$126,870	0.101	0.050	0.024	0.027
All Housing Types (Rent), 2-3 BR				
All Values	0.577	0.339	0.127	0.111
Below Median \$159,328	0.788	0.472	0.168	0.148
Above Median \$159,328	0.365	0.205	0.086	0.074
All Housing Types (Rent), 4-5 BR				
All Values	1.419	0.841	0.307	0.271
Below Median \$185,361	1.623	0.897	0.403	0.323
Above Median \$185,361	1.214	0.784	0.211	0.220

TABLE II-C-3 NORTH REGION OF NEW JERSEY PUBLIC SCHOOL CHILDREN (PSC)

		PUBLIC SCHOOL GRADE					
STRUCTURE TYPE/	TOTAL	Til 4	TT: 1 G 1 1				
BEDROOMS/ VALUE /TENURE	TOTAL PSC	Elementary (K-6)	School (7-9)	High School (10-12)			
C'1- E'I- D-4-1-1-2 2 DD							
Single-Family Detached, 2-3 BR All Values	0.514	0.284	0.125	0.104			
Below Median \$370,722	0.554	0.284	0.123	0.104			
Above Median \$370,722	0.334	0.259	0.141	0.118			
Single-Family Detached, 4-5 BR	0.427	0.239	0.092	0.076			
All Values	0.845	0.545	0.174	0.125			
Below Median \$741,444		0.545					
· · · · · · · · · · · · · · · · · · ·	0.824		0.175	0.124			
Above Median \$741,444	0.878	0.578	0.172	0.128			
Single-Family Attached, 2-3 BR							
All Values	0.242	0.136	0.046	0.060			
Below Median \$370,722	0.285	0.167	0.057	0.061			
Above Median \$370,722	0.165	0.082	0.025	0.058			
Single-Family Attached, 4-5 BR							
All Values	0.908	0.420	0.255	0.233			
Below Median \$576,679	1.129	0.625	0.214	0.290			
Above Median \$576,679	0.570	0.106	0.318	0.145			
5+ Units-Own & Rent, 0-1 BR							
All Values	0.073	0.054	0.011	0.008			
Below Median \$139,391	0.110	0.084	0.011	0.010			
Above Median \$139,391	0.037	0.004	0.010	0.007			
5+ Units-Own & Rent, 2-3 BR	0.037	0.024	0.007	0.007			
All Values	0.268	0.164	0.060	0.044			
Below Median \$227,870	0.458	0.275	0.110	0.073			
Above Median \$227,870	0.078		0.110	0.015			
7100VC Wicdian \$227,070	0.078	0.033	0.010	0.013			
2-4 Units, 0-1 BR							
All Values	0.165	0.111	0.031	0.023			
Below Median \$124,563	0.148	0.116	0.021	0.011			
Above Median \$124,563	0.182	0.105	0.042	0.035			
2-4 Units, 2-3 BR							
All Values	0.572	0.337	0.135	0.101			
Below Median \$181,242	0.739	0.432	0.185	0.121			
Above Median \$181,242	0.402	0.240	0.083	0.080			

TABLE II-C-3 NORTH REGION OF NEW JERSEY PUBLIC SCHOOL CHILDREN (PSC) (Continued)

		PUBLIC SCHOOL GRADE					
STRUCTURE TYPE/ BEDROOMS/ VALUE /TENURE	TOTAL PSC	Elementary (K-6)	Junior High School (7-9)	High School (10-12)			
All Housing Types (Own), 0-1 BR							
All Values	0.174	0.130	0.022	0.022			
Below Median \$226,552	0.116	0.093	0.013	0.010			
Above Median \$226,552	0.247	0.177	0.034	0.036			
All Housing Types (Own), 2-3 BR							
All Values	0.295	0.168	0.065	0.062			
Below Median \$370,722	0.314	0.177	0.074	0.063			
Above Median \$370,722	0.261	0.151	0.049	0.061			
All Housing Types (Own),4-5 BR							
All Values	0.828	0.529	0.174	0.126			
Below Median \$741,444	0.806	0.509	0.174	0.123			
Above Median \$741,444	0.865	0.562	0.174	0.129			
All Housing Types (Rent), 0-1 BR							
All Values	0.111	0.072	0.021	0.017			
Below Median \$126,870	0.140	0.103	0.019	0.018			
Above Median \$126,870	0.082	0.042	0.024	0.016			
All Housing Types (Rent), 2-3 BR							
All Values	0.497	0.293	0.115	0.089			
Below Median \$159,328	0.692	0.428	0.154	0.110			
Above Median \$159,328	0.301	0.156	0.077	0.068			
All Housing Types (Rent), 4-5 BR							
All Values	1.046	0.567	0.237	0.242			
Below Median \$185,361	1.394	0.736	0.334	0.323			
Above Median \$185,361	0.697	0.397	0.140	0.160			

TABLE II-C-4 NORTH REGION OF NEW JERSEY STATISTICS FOR TOTAL PERSONS

REDROOMS/ VALUE / TENURE   PERSONS   Number of Standard   Number of St			90% Confidence Interval					
Nature   Persons   Households   Error   low   high   as %	STRUCTURE TYPE/	TOTAL	N. 1 C	G. 1 1			Error	
Single-Family Detached, 2-3 BR   All Values   3.137   9,987   0.204   2.802   3.472   11%   Below Median \$370,722   2.974   3,178   0.345   2.406   3.542   19%   Single-Family Detached, 4-5 BR   All Values   3.809   24,777   0.153   3.558   4.060   7%   Below Median \$741,444   3.940   9,459   0.256   3.519   4.362   11%					low	hiah		
BR All Values Below Median \$370,722 Single-Family Detached, 4-5 BR All Values Below Median \$741,444 Above Median \$741,444 Above Median \$741,444 Above Median \$770,722 Below Median \$741,444 Above Median \$741,444 Below Median \$741,444 Above Median \$741,444 Above Median \$741,444 Below Median \$741,444 Below Median \$70,722 Above Median \$370,722 Below Median \$370,722 Above Median \$370,722 Below Median \$576,679 Above Median \$576,679 Above Median \$576,679 Above Median \$139,391 Above Median \$139,391 Above Median \$139,391 Above Median \$227,870 Above Median \$227,870 Above Median \$227,870 Above Median \$227,870 Above Median \$124,563 Below Median \$124,563 Above Median \$124,563 Above Median \$124,563 Above Median \$13,245 Below Median \$124,563 Above Median \$181,242 Below Median	VALUE/TENURE	TERSONS	Householus	Liiui	10 W	mgn	as /0	
All Values Below Median \$370,722 Above Median \$370,722 All Values Below Median \$370,722 Above Median \$370,722 Below Median \$370,722 Above Median \$370,722 Below Median \$741,444 Above Median \$70,722 Below Median \$370,722 Below Median \$370,722 Below Median \$370,722 Above Median \$39,391 Above Median \$139,391 Above Median \$124,563 Above Median \$227,870 Above Median \$227,870 Above Median \$124,563 Above Median \$181,242 All Values Below Median \$181,242 All Values Above Median								
Below Median \$370,722   3.213   6,809   0.252   2.798   3.628   13%		3.137	9.987	0.204	2.802	3.472	11%	
Above Median \$370,722   2.974   3,178   0.345   2.406   3.542   19%   Single-Family Detached, 4-5 BR	Below Median \$370,722							
Single-Family Detached, 4-5 BR			,					
Single-Family Attached, 2-3 BR   All Values   Below Median \$576,679   Above Median \$139,391   Above Median \$139,391   Above Median \$139,391   Above Median \$139,391   Above Median \$227,870   Above	• •		, , , ,					
Below Median \$741,444   3.728   15,318   0.191   3.414   4.043   8%	All Values	3.809	24,777	0.153	3.558	4.060	7%	
Single-Family Attached, 2-3 BR   All Values   Below Median \$139,391   Above Median \$227,870   Above Median \$227,870   Above Median \$227,870   Above Median \$227,870   Above Median \$124,563   Above Median \$124,253 BR All Values   Above Median \$124,253 BR All Values   Above Median \$124,563   Ab	Below Median \$741,444				3.414	4.043	8%	
All Values Below Median \$370,722 Above Median \$370,722 Above Median \$370,722  Single-Family Attached, 4-5 BR All Values Below Median \$576,679 Above Median \$576,679 Above Median \$576,679 Above Median \$139,391 Above Median \$139,391 Above Median \$139,391 Above Median \$139,391 Above Median \$227,870 Below Median \$227,870 Above Median \$227,870 Above Median \$124,563 Above Median	Above Median \$741,444	3.940	,		3.519	4.362	11%	
All Values Below Median \$370,722 Above Median \$370,722 Above Median \$370,722  Single-Family Attached, 4-5 BR All Values Below Median \$576,679 Above Median \$576,679 Above Median \$576,679 Above Median \$139,391 Above Median \$139,391 Above Median \$139,391 Above Median \$139,391 Above Median \$227,870 Below Median \$227,870 Above Median \$227,870 Above Median \$124,563 Above Median	Single Femily Attached 2.2 PD							
Below Median \$370,722			15 427	0.122	2 258	2 606	00/-	
Above Median \$370,722								
Single-Family Attached, 4-5 BR         All Values       3.520       834       0.783       2.233       4.808       37%         Below Median \$576,679       3.954       504       1.117       2.117       5.792       46%         Above Median \$576,679       2.858       330       1.036       1.154       4.561       60%         5+ Units-Own & Rent, 0-1 BR       1.555       14,141       0.095       1.399       1.710       10%         Below Median \$139,391       1.512       7,083       0.131       1.297       1.728       14%         5+ Units-Own & Rent, 2-3 BR       1.597       7,058       0.137       1.372       1.823       14%         5+ Units-Own & Rent, 2-3 BR       2.262       14,562       0.127       2.053       2.471       9%         Below Median \$227,870       2.526       7,305       0.197       2.201       2.851       13%         2-4 Units, 0-1 BR       2.056       3,065       0.256       1.635       2.478       21%         Below Median \$124,563       1.892       1,546       0.337       1.338       2.446       29%         Above Median \$124,563       2.224       1,519       0.389       1.584       2.864 <t< td=""><td>-</td><td></td><td>,</td><td></td><td></td><td></td><td></td></t<>	-		,					
All Values Below Median \$576,679 Above Median \$576,679 Above Median \$576,679  5+ Units-Own & Rent, 0-1 BR All Values Below Median \$139,391 Above Median \$139,391 Above Median \$139,391 Above Median \$227,870 Above Median \$227,870 Above Median \$227,870 Above Median \$124,563 Below Median \$124,563 Above Median \$124,563 Above Median \$124,563 Below Median \$124,563 Above Median \$1	· · · · · · · · · · · · · · · · · · ·		3,302	0.213	2.010	2./10	13/0	
Below Median \$576,679 Above Median \$576,679  2.858 3.954 2.858 330 1.036 1.154 4.561 60%  5+ Units-Own & Rent, 0-1 BR All Values Below Median \$139,391 Above Median \$139,391 5+ Units-Own & Rent, 2-3 BR All Values Below Median \$227,870 Above Median \$227,870 Above Median \$227,870 Above Median \$124,563 Above Me	•		834	0.783	2 233	4 808	37%	
Above Median \$576,679  2.858  330  1.036  1.154  4.561  60%  5+ Units—Own & Rent, 0-1 BR  All Values  Below Median \$139,391  5+ Units—Own & Rent, 2-3 BR  All Values  Below Median \$227,870  Above Median \$227,870  2.526  7,305  7,257  0.162  1.729  2.263  13%  2-4 Units, 0-1 BR  All Values  Below Median \$124,563  Above Median \$124,563  2.224  1,519  0.389  1.584  2.864  2.9%  2-4 Units, 2-3 BR  All Values  Below Median \$181,242  3.298  5,434  0.289  2.823  3.773  14%								
All Values Below Median \$139,391 Above Median \$139,391 All Values Below Median \$139,391 Above Median \$139,391 All Values Below Median \$227,870 Above Median \$227,870 All Values Below Median \$124,563 Above Media	*							
All Values Below Median \$139,391 Above Median \$139,391 All Values Below Median \$139,391 Above Median \$139,391 All Values Below Median \$227,870 Above Median \$227,870 All Values Below Median \$124,563 Above Media								
Below Median \$139,391 Above Median \$139,391 5+ Units-Own & Rent, 2-3 BR All Values Below Median \$227,870 Above Median \$227,870 Above Median \$227,870 All Values  2.526 Above Median \$227,870 Above Median \$227,870 Above Median \$227,870  2.526 Above Median \$124,563 Abo								
Above Median \$139,391 5+ Units-Own & Rent, 2-3 BR All Values Below Median \$227,870 Above Median \$227,870 Above Median \$227,870  2-4 Units, 0-1 BR All Values Below Median \$124,563 Above Median \$124,5			,					
5+ Units-Own & Rent, 2-3 BR         All Values       2.262       14,562       0.127       2.053       2.471       9%         Below Median \$227,870       2.526       7,305       0.197       2.201       2.851       13%         Above Median \$227,870       1.996       7,257       0.162       1.729       2.263       13%         2-4 Units, 0-1 BR         All Values       2.056       3,065       0.256       1.635       2.478       21%         Below Median \$124,563       1.892       1,546       0.337       1.338       2.446       29%         2-4 Units, 2-3 BR       2.224       1,519       0.389       1.584       2.864       29%         All Values       3.231       10,761       0.201       2.900       3.562       10%         Below Median \$181,242       3.298       5,434       0.289       2.823       3.773       14%			,					
All Values Below Median \$227,870 Above Median \$227,870  2.526 Above Median \$227,870  2.527  2.621 Above Median \$227,870  2.621 Above Median \$124,563	· ·	1.597	7,058	0.137	1.372	1.823	14%	
Below Median \$227,870       2.526       7,305       0.197       2.201       2.851       13%         Above Median \$227,870       1.996       7,257       0.162       1.729       2.263       13%         2-4 Units, 0-1 BR       2.056       3,065       0.256       1.635       2.478       21%         Below Median \$124,563       1.892       1,546       0.337       1.338       2.446       29%         Above Median \$124,563       2.224       1,519       0.389       1.584       2.864       29%         2-4 Units, 2-3 BR         All Values       3.231       10,761       0.201       2.900       3.562       10%         Below Median \$181,242       3.298       5,434       0.289       2.823       3.773       14%	· ·							
Above Median \$227,870  1.996  7,257  0.162  1.729  2.263  13%  2-4 Units, 0-1 BR  All Values  Below Median \$124,563  Above Median \$124,563  2.224  2.24  2.24  2.256  3,065  0.256  1.635  2.478  21%  0.337  1.338  2.446  29%  2.224  1,519  0.389  1.584  2.864  29%  2-4 Units, 2-3 BR  All Values  3.231  10,761  0.201  2.900  3.562  10%  Below Median \$181,242  3.298  5,434  0.289  2.823  3.773  14%								
2-4 Units, 0-1 BR All Values  Below Median \$124,563  Above Median \$124,563  2.224  2.224  2.329  2.40  2.505  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,065  3,06								
All Values 2.056 3,065 0.256 1.635 2.478 21% Below Median \$124,563 1.892 1,546 0.337 1.338 2.446 29% Above Median \$124,563 2.224 1,519 0.389 1.584 2.864 29% 2-4 Units, 2-3 BR All Values 3.231 10,761 0.201 2.900 3.562 10% Below Median \$181,242 3.298 5,434 0.289 2.823 3.773 14%	Above Median \$227,870	1.996	7,257	0.162	1.729	2.263	13%	
All Values 2.056 3,065 0.256 1.635 2.478 21% Below Median \$124,563 1.892 1,546 0.337 1.338 2.446 29% Above Median \$124,563 2.224 1,519 0.389 1.584 2.864 29% 2-4 Units, 2-3 BR All Values 3.231 10,761 0.201 2.900 3.562 10% Below Median \$181,242 3.298 5,434 0.289 2.823 3.773 14%	2-4 Units, 0-1 BR							
Below Median \$124,563       1.892       1,546       0.337       1.338       2.446       29%         Above Median \$124,563       2.224       1,519       0.389       1.584       2.864       29%         2-4 Units, 2-3 BR         All Values       3.231       10,761       0.201       2.900       3.562       10%         Below Median \$181,242       3.298       5,434       0.289       2.823       3.773       14%		2.056	3 065	0.256	1.635	2.478	21%	
Above Median \$124,563 2.224 1,519 0.389 1.584 2.864 29% <b>2-4 Units, 2-3 BR</b> All Values 3.231 10,761 0.201 2.900 3.562 10%  Below Median \$181,242 3.298 5,434 0.289 2.823 3.773 14%								
2-4 Units, 2-3 BR     3.231     10,761     0.201     2.900     3.562     10%       Below Median \$181,242     3.298     5,434     0.289     2.823     3.773     14%	The state of the s		,					
All Values 3.231 10,761 0.201 2.900 3.562 10% Below Median \$181,242 3.298 5,434 0.289 2.823 3.773 14%			1,017	2.207	501		_>,3	
Below Median \$181,242 3.298 5,434 0.289 2.823 3.773 14%	•	3.231	10.761	0.201	2.900	3.562	10%	
,	Below Median \$181,242							
5.100 5.201 2.700 5.020 1570	Above Median \$181,242	3.163			2.700	3.626		

TABLE II-C-4 NORTH REGION OF NEW JERSEY STATISTICS FOR TOTAL PERSONS (Continued)

		90% Confidence Interval					
STRUCTURE TYPE/						Error	
BEDROOMS/	TOTAL	Number of				Margin	
VALUE /TENURE	PERSONS	Households	Error	low	high	as %	
All Housing Types (Own), 0-1							
BR							
All Values	2.039	3,467	0.239	1.645	2.432	19%	
Below Median \$226,552	1.785	1,935	0.287	1.313	2.257	26%	
Above Median \$226,552	2.359	1,532	0.407	1.689	3.029	28%	
All Housing Types (Own), 2-3							
BR							
All Values	2.587	,		2.427	2.746	6%	
Below Median \$370,722	2.571	20,207		2.373	2.768	8%	
Above Median \$370,722	2.616	10,967	0.166	2.343	2.889	10%	
All Housing Types (Own),4-5							
BR							
All Values	3.792	25,552		3.546		6%	
Below Median \$741,444	3.714	/		3.405		8%	
Above Median \$741,444	3.920	9,750	0.251	3.507	4.333	11%	
All Housing Types (Rent), 0-1							
BR	1.675	15.020	0.005	1.510	1 020	00/	
All Values	1.675	15,930		1.519		9%	
Below Median \$126,870	1.617	7,969		1.402	1.831	13%	
Above Median \$126,870	1.733	7,961	0.138	1.506	1.959	13%	
All Housing Types (Rent), 2-3 BR							
All Values	2.894	19,563	0.135	2.671	3 116	8%	
Below Median \$159,328	3.152	9,814		2.813		11%	
Above Median \$159,328	2.633			2.342		11%	
All Housing Types (Rent), 4-5	2.033	7,749	0.177	2.572	2.724	11/0	
BR							
All Values	4.418	1,105	0.834	3.047	5.790	31%	
Below Median \$185,361	4.903			2.773	7.032	43%	
Above Median \$185,361	3.931	551	1.063	2.183	5.679	44%	

TABLE II-C-5 NORTH REGION OF NEW JERSEY STATISTICS FOR SCHOOL-AGE CHILDREN (SAC)

			<u>90</u>	% Conf	idence	e Interval		
STRUCTURE TYPE/	тотат	Name have a	C4am damd			Error		
BEDROOMS/ VALUE /TENURE	TOTAL SAC	Number of Households	Error	low	high	Margin as %		
Single-Family Detached, 2-3								
BR								
All Values	0.607	9,987	0.056	0.515	0.699	15%		
Below Median \$370,722	0.644	,		0.528				
Above Median \$370,722	0.527	3,178		0.379				
Single-Family Detached, 4-5 BR		-,						
All Values	1.072	24,777	0.053	0.984	1 160	8%		
Below Median \$741,444	0.981	15,318		0.876	1.085			
Above Median \$741,444	1.220			1.063	1.377			
Single-Family Attached, 2-3 BR	0.207	15 407	0.020	0.240	0.242	1.60/		
All Values	0.296			0.249				
Below Median \$370,722	0.356	,		0.291	0.421	18%		
Above Median \$370,722	0.186	5,502	0.036	0.127	0.245	32%		
Single-Family Attached, 4-5 BR All Values	0.047	024	0.266	0.500	1 207	460/		
Below Median \$576,679	0.947 1.163			0.509 0.504	1.386 1.821	46% 57%		
Above Median \$576,679	0.618	330			1.131	83%		
5+ Units-Own & Rent, 0-1 BR								
All Values	0.092	,		0.067				
Below Median \$139,391	0.136				0.179			
Above Median \$139,391	0.048	7,058	0.015	0.023	0.073	52%		
5+ Units-Own & Rent, 2-3 BR								
All Values	0.308	,		0.259				
Below Median \$227,870	0.516	,		0.419				
Above Median \$227,870	0.099	7,257	0.022	0.063	0.135	36%		
2-4 Units, 0-1 BR								
All Values	0.227	3,065	0.054	0.138	0.316	39%		
Below Median \$124,563	0.175	,		0.067				
Above Median \$124,563	0.280	,		0.137				
2-4 Units, 2-3 BR								
All Values	0.675	10,761	0.058	0.580	0.771	14%		
Below Median \$181,242	0.829			0.673				
Above Median \$181,242	0.518	5,327	0.069	0.405	0.632	22%		

TABLE II-C-5 NORTH REGION OF NEW JERSEY STATISTICS FOR SCHOOL-AGE CHILDREN (SAC) (Continued)

		90% Confidence Interval						
STRUCTURE TYPE/		Err						
BEDROOMS/	TOTAL	Number of			Margin			
VALUE /TENURE	SAC	Households	Error	low	high	as %		
All Housing Types (Own), 0-1								
BR								
All Values	0.217	3,467	0.049	0.135	0.298	38%		
Below Median \$226,552	0.144	1,935	0.052	0.058	0.230	60%		
Above Median \$226,552	0.309	1,532	0.092	0.157	0.460	49%		
All Housing Types (Own), 2-3								
BR								
All Values	0.356	,		0.319		10%		
Below Median \$370,722	0.376	,		0.329		13%		
Above Median \$370,722	0.318	10,967	0.035	0.260	0.375	18%		
All Housing Types (Own),4-5								
BR All Values	1 044	25.552	0.051	0.060	1 120	00/		
	1.044	,	0.051	0.960		8%		
Below Median \$741,444 Above Median \$741,444	0.945	15,802	0.061	0.845	1.045	11%		
Above Median \$741,444	1.205	9,750	0.093	1.052	1.359	13%		
All Housing Types (Rent), 0-1								
BR All Values	0.140	15,930	0.019	0.111	0.160	21%		
Below Median \$126,870	0.140	,		0.111		27%		
Above Median \$126,870	0.179	7,969		0.131		34%		
All Housing Types (Rent), 2-3	0.101	7,901	0.021	0.000	0.130	3470		
BR								
All Values	0.577	19,563	0.039	0.514	0.640	11%		
Below Median \$159,328	0.788	,		0.676		14%		
Above Median \$159,328	0.365			0.298		18%		
All Housing Types (Rent), 4-5	***************************************	,,,,,						
BR								
All Values	1.419	1,105	0.316	0.900	1.938	37%		
Below Median \$185,361	1.623	554	0.497	0.806	2.440	50%		
Above Median \$185,361	1.214	551	0.396	0.563	1.865	54%		

TABLE II-C-6 NORTH REGION OF NEW JERSEY STATISTICS FOR PUBLIC SCHOOL CHILDREN (PSC)

		90% Confidence Interval							
STRUCTURE TYPE/	TOTAL	N 1 6	G( 1 1			Error			
BEDROOMS/ VALUE /TENURE	TOTAL PSC	Number of Households		low	high	Margin as %			
Single-Family Detached, 2-3 BR									
All Values	0.514	9,987	0.055	0.423	0.604	18%			
Below Median \$370,722	0.554			0.439					
Above Median \$370,722	0.427			0.437					
Single-Family Detached, 4-5	0.427	3,170	0.007	0.204	0.570	3470			
BR									
All Values	0.845	24,777	0.049	0.765	0.925	9%			
Below Median \$741,444	0.824	15,318	0.061	0.724	0.924	12%			
Above Median \$741,444	0.878	9,459	0.081	0.745	1.011	15%			
Single-Family Attached, 2-3 BR									
All Values	0.242	15,427	0.028	0.196	0.288	19%			
Below Median \$370,722	0.285				0.348				
Above Median \$370,722	0.165			0.103					
Single-Family Attached, 4-5 BR		. ,							
All Values	0.908	834	0.280	0.448	1.368	51%			
Below Median \$576,679	1.129			0.437	1.821				
Above Median \$576,679	0.570			0.036					
5+ Units-Own & Rent, 0-1 BR									
All Values	0.073	14,141	0.015	0.048	0.099	34%			
Below Median \$139,391	0.110			0.066					
Above Median \$139,391	0.037			0.012					
5+ Units-Own & Rent, 2-3 BR		,,,,,,	*****						
All Values	0.268	14,562	0.031	0.218	0.319	19%			
Below Median \$227,870	0.458	-		0.359					
Above Median \$227,870	0.078			0.041					
2-4 Units, 0-1 BR									
All Values	0.165	3,065	0.051	0.081	0.248	51%			
Below Median \$124,563	0.148	-		0.037					
Above Median \$124,563	0.182	-		0.056					
2-4 Units, 2-3 BR	0.102	1,017	2.0,0			22,0			
All Values	0.572	10,761	0.057	0.479	0.666	16%			
Below Median \$181,242	0.739				0.895				
Below 101calall \$101,212									

TABLE II-C-6 NORTH REGION OF NEW JERSEY STATISTICS FOR PUBLIC SCHOOL CHILDREN (PSC) (Continued)

		90% Confidence Interval						
STRUCTURE TYPE/		- I						
BEDROOMS/	TOTAL	Number of				Margin		
VALUE /TENURE	PSC	Households	Error	low	high	as %		
All Housing Types (Own), 0-1								
BR								
All Values	0.174	3,467	0.049	0.093	0.255	47%		
Below Median \$226,552	0.116	1,935	0.053	0.029	0.203	75%		
Above Median \$226,552	0.247	1,532	0.090	0.098	0.395	60%		
All Housing Types (Own), 2-3								
BR								
All Values	0.295	,		0.259				
Below Median \$370,722	0.314	20,207	0.029	0.267	0.361	15%		
Above Median \$370,722	0.261	10,967	0.035	0.204	0.318	22%		
All Housing Types (Own),4-5								
BR								
All Values	0.828				0.906			
Below Median \$741,444	0.806	,		0.709				
Above Median \$741,444	0.865	9,750	0.079	0.735	0.995	15%		
All Housing Types (Rent), 0-1								
BR All Values	0.111	15.020	0.010	0.001	0 1 40	270/		
All Values	0.111	15,930		0.081				
Below Median \$126,870	0.140	,		0.092				
Above Median \$126,870	0.082	7,961	0.022	0.046	0.118	43%		
All Housing Types (Rent), 2-3 BR								
All Values	0.497	19,563	0.030	0.434	0.561	13%		
Below Median \$159,328	0.497	9,814			0.804			
Above Median \$159,328	0.092	9,814		0.381				
All Housing Types (Rent), 4-5	0.301	9,749	0.040	0.233	0.307	ZZ70		
BR								
All Values	1.046	1,105	0.269	0.604	1.488	42%		
Below Median \$185,361	1.394	,			2.165			
Above Median \$185,361	0.697			0.225	1.169			

## PART TWO NEW JERSEY GENERAL APPLICATION RESIDENTIAL MULTIPLIERS:

## D. CENTRAL NEW JERSEY<sup>2</sup> (2000)

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<sup>2</sup> Bergen, Essex, Hudson, Morris, Passaic, Sussex, and Union counties.

#### TABLE II-D-1 CENTRAL REGION OF NEW JERSEY TOTAL PERSONS AND PERSONS BY AGE

STRUCTURE TYPE/	TOTAL	AGE							
BEDROOMS/ VALUE /TENURE	TOTAL PERSONS	0-4	5-17	18-34	35-44	45-54	55-64	65-74	-75+
Single-Family Detached, 2-3 BR	2.570	0.040	0.065			0.050			0.150
All Values	2.578	0.243							0.158
Below Median \$308,935	2.501	0.229							0.189
Above Median \$308,935	2.683	0.262	0.402	0.419	0.547	0.323	0.284	0.332	0.115
Single-Family Detached, 4-5 BR	2.500	0.410	1 00 4	0.510	1 010	0.501	0.144	0.064	
All Values	3.780								0.037
Below Median \$576,679	3.738	0.420							0.034
Above Median \$576,679	3.860	0.396	1.177	0.367	1.027	0.603	0.179	0.068	3 0.043
Single-Family Attached, 2-3 BR									
All Values	2.296	0.193	0.292	0.569	0.458	0.299	0.226	0.175	0.083
Below Median \$267,744	2.345	0.189	0.340	0.614	0.490	0.275	0.198	0.157	0.083
Above Median \$267,744	2.217	0.200	0.214	0.497	0.406	0.339	0.272	0.204	0.084
Single-Family Attached, 4-5 BR									
All Values	4.497	1.032	1.210	1.042	0.607	0.305	0.175	0.106	0.020
Below Median \$308,935	5.169	1.585	1.341	1.634	0.301	0.180	0.056	0.071	0.000
Above Median \$308,935	3.709	0.383	1.056	0.348	0.967	0.452	0.314	0.147	0.043
5+ Units-Own & Rent, 0-1 BR									
All Values	1.603	0.100	0.064	0.681	0.163	0.077	0.067	0.154	0.298
Below Median \$131,483	1.468	0.074							0.367
Above Median \$131,483	1.741	0.127			0.217				0.226
5+ Units-Own & Rent, 2-3 BR									
All Values	2.342	0.235	0.373	0.872	0.398	0.222	0.104	0.067	0.070
Below Median \$185,361	2.341	0.231	0.406	0.896	0.379	0.221	0.111	0.056	0.041
Above Median \$185,361	2.343	0.240							0.109
2-4 Units, 0-1 BR									
All Values	2.001	0.210	0 276	6 0.864	1 0 164	0.265	0.062	0.058	0.101
Below Median \$128,187		0.210							0.111
Above Median \$128,187	2.319								0.111
2-4 Units, 2-3 BR	2.319	0.233	0.512	1.020	0.130	0.545	0.000	0.000	0.030
All Values	2.649	0.268	0.404	0.887	7 0.416	0.278	0.214	0.149	0.034
Below Median \$185,361		0.208							0.034
Above Median \$185,361		0.376							0.019
1100 ve 1viculuii ψ105,501	2.430	0.132	0.233	0.001	0.302	. 0.500	0.2/0	0.433	0.055

TABLE II-D-1 CENTRAL REGION OF NEW JERSEY TOTAL PERSONS AND PERSONS BY AGE (Continued)

STRUCTURE TYPE/ BEDROOMS/	TOTAL	AGE							
VALUE /TENURE	PERSONS	0-4	5-17	18-34	35-44	45-54	55-64	65-74	-75+
All Housing Types (Own), 0-1 BR									
All Values	2.078	0.137	0.275	0.497	0.438	0.277	0.117	0.135	0.202
Below Median \$185,361		0.106							0.166
Above Median \$185,361	2.451								0.255
All Housing Types (Own), 2-3 BR									
All Values	2.397	0.209	0.308	0.486	0.462	0.279	0.240	0.292	0.121
Below Median \$267,744	2.307	0.188	0.300	0.522	0.435	0.254	0.207	0.274	0.128
Above Median \$267,744	2.502	0.234	0.317	0.445	0.493	0.307	0.278	0.314	0.114
All Housing Types (Own),4-5 BR									
All Values	3.782	0.418	1.092	0.520	1.005	0.500	0.146	0.065	0.037
Below Median \$576,679	3.746	0.430	1.051	0.600	0.995	0.446	0.128	0.062	0.034
Above Median \$576,679	3.851	0.395	1.170	0.368	1.025	0.602	0.179	0.070	0.043
All Housing Types (Rent), 0-1 BR									
All Values	1.729	0.118	0.110	0.753	0.178	0.099	0.071	0.141	0.260
Below Median \$130,164	1.511	0.088	0.075	0.482	0.117	0.081	0.083	0.241	0.344
Above Median \$130,164	1.950	0.149	0.146	1.027	0.239	0.117	0.058	0.040	0.175
All Housing Types (Rent), 2-3 BR									
All Values	2.670	0.303	0.512	0.962	0.456	0.216	0.105	0.050	0.067
Below Median \$181,901	2.673	0.313	0.578	0.965	0.445	0.185	0.097	0.035	0.055
Above Median \$181,901	2.668	0.292	0.446	0.959	0.467	0.247	0.112	0.066	0.079
All Housing Types (Rent), 4-5 BR									
All Values	4.803	1.053	1.491	1.332	0.543	0.201	0.068	0.096	0.019
Below Median \$234,132	4.435	1.077	1.002	1.874	0.327	0.010	0.052	0.058	0.035
Above Median \$234,132	5.236	1.024	2.066	0.696	0.796	0.426	0.088	0.141	0.000

TABLE II-D-2 CENTRAL REGION OF NEW JERSEY SCHOOL-AGE CHILDREN (SAC)

STRUCTURE TYPE/ BEDROOMS/ VALUE /TENURE	TOTAL SAC	Elementary (K-6)	GRADE Junior High School (7-9)	High School (10-12)
		, ,	` '	
Single-Family Detached, 2-3 BR	0.0.5			0.050
All Values	0.367	0.231	0.077	0.059
Below Median \$308,935	0.341	0.223	0.061	0.056
Above Median \$308,935	0.402	0.241	0.099	0.062
Single-Family Detached, 4-5 BR	1 004	0.707	0.004	0.164
All Values	1.094	0.706	0.224	0.164
Below Median \$576,679	1.050	0.682	0.215	0.154
Above Median \$576,679	1.177	0.752	0.242	0.183
Single-Family Attached, 2-3 BR				
All Values	0.292	0.177	0.078	0.037
Below Median \$267,744	0.340	0.199	0.099	0.042
Above Median \$267,744	0.214	0.142	0.045	0.028
Single-Family Attached, 4-5 BR				
All Values	1.210	0.868	0.170	0.172
Below Median \$308,935	1.341	1.094	0.135	0.112
Above Median \$308,935	1.056	0.601	0.212	0.243
5+ Units-Own & Rent, 0-1 BR				
All Values	0.064	0.042	0.014	0.008
Below Median \$131,483	0.051	0.020	0.021	0.010
Above Median \$131,483	0.077	0.064	0.006	0.007
5+ Units-Own & Rent, 2-3 BR				
All Values	0.373	0.262	0.056	0.055
Below Median \$185,361	0.406	0.303	0.063	0.041
Above Median \$185,361	0.330	0.210	0.047	0.073
2-4 Units, 0-1 BR				
All Values	0.276	0.182	0.045	0.050
Below Median \$128,187	0.241	0.142	0.038	0.061
Above Median \$128,187	0.312	0.222	0.052	0.039
2-4 Units, 2-3 BR				
All Values	0.405	0.252	0.074	0.079
Below Median \$185,361	0.542	0.373	0.053	0.116
Above Median \$185,361	0.233	0.100	0.100	0.033

TABLE II-D-2 CENTRAL REGION OF NEW JERSEY SCHOOL-AGE CHILDREN (SAC) (Continued)

STRUCTURE TYPE/ BEDROOMS/ VALUE/TENURE	TOTAL SAC	Elementary (K-6)	GRADE Junior High School (7-9)	High School (10-12)
All Housing Types (Own), 0-1 BR				
All Values	0.275	0.171	0.071	0.033
Below Median \$185,361	0.214	0.149	0.033	0.032
Above Median \$185,361	0.362	0.203	0.124	0.034
All Housing Types (Own), 2-3 BR				
All Values	0.308	0.191	0.070	0.047
Below Median \$267,744	0.300	0.183	0.069	0.048
Above Median \$267,744	0.317	0.200	0.071	0.047
All Housing Types (Own),4-5 BR				
All Values	1.092	0.704	0.223	0.164
Below Median \$576,679	1.051	0.681	0.214	0.155
Above Median \$576,679	1.170	0.747	0.241	0.182
All Housing Types (Rent), 0-1 BR				
All Values	0.110	0.062	0.026	0.022
Below Median \$130,164	0.075	0.030	0.025	0.019
Above Median \$130,164	0.146	0.095	0.027	0.024
All Housing Types (Rent), 2-3 BR				
All Values	0.512	0.347	0.093	0.072
Below Median \$181,901	0.578	0.407	0.093	0.078
Above Median \$181,901	0.446	0.288	0.094	0.065
All Housing Types (Rent), 4-5 BR				
All Values	1.491	1.112	0.187	0.192
Below Median \$234,132	1.002	0.586	0.164	0.253
Above Median \$234,132	2.066	1.730	0.214	0.122

TABLE II-D-3 CENTRAL REGION OF NEW JERSEY PUBLIC SCHOOL CHILDREN (PSC)

		PUBLIC SCHOOL GRADE					
STRUCTURE TYPE/							
BEDROOMS/ VALUE /TENURE	TOTAL PSC	Elementary (K-6)	School (7-9)	High School (10-12)			
Single-Family Detached, 2-3 BR							
All Values	0.304	0.181	0.071	0.052			
Below Median \$308,935	0.282	0.173	0.058	0.051			
Above Median \$308,935	0.333	0.191	0.089	0.053			
Single-Family Detached, 4-5 BR							
All Values	0.902	0.573	0.189	0.140			
Below Median \$576,679	0.885	0.562	0.188	0.135			
Above Median \$576,679	0.933	0.594	0.189	0.150			
Single-Family Attached, 2-3 BR							
All Values	0.251	0.146	0.071	0.033			
Below Median \$267,744	0.287	0.163	0.088	0.036			
Above Median \$267,744	0.192	0.119	0.045	0.028			
Single-Family Attached, 4-5 BR							
All Values	0.449	0.253	0.095	0.101			
Below Median \$308,935	0.202	0.118	0.031	0.054			
Above Median \$308,935	0.738	0.412	0.171	0.155			
5+ Units-Own & Rent, 0-1 BR							
All Values	0.062	0.040	0.014	0.008			
Below Median \$131,483	0.051	0.020	0.021	0.010			
Above Median \$131,483	0.072	0.060	0.006	0.007			
5+ Units-Own & Rent, 2-3 BR							
All Values	0.308	0.215	0.050	0.042			
Below Median \$185,361	0.358	0.267	0.057	0.034			
Above Median \$185,361	0.242	0.148	0.042	0.052			
2-4 Units, 0-1 BR							
All Values	0.264	0.169	0.045	0.050			
Below Median \$128,187	0.216	0.117	0.038	0.061			
Above Median \$128,187	0.312	0.222	0.052	0.039			
2-4 Units, 2-3 BR		<del>-</del>	<u>-</u>				
All Values	0.330	0.204	0.058	0.068			
Below Median \$185,361	0.435	0.287	0.053	0.095			
	0.198	0.100	0.065	0.033			

TABLE II-D-3 CENTRAL REGION OF NEW JERSEY PUBLIC SCHOOL CHILDREN (PSC) (Continued)

		PUBLIC SCHOOL GRADE					
STRUCTURE TYPE/			Junior High				
BEDROOMS/	TOTAL	Elementary	School	High School			
VALUE /TENURE	PSAC	(K-6)	(7-9)	(10-12)			
All Housing Types (Own), 0-1 BR							
All Values	0.236	0.146	0.061	0.028			
Below Median \$185,361	0.183	0.119	0.033	0.032			
Above Median \$185,361	0.310	0.186	0.101	0.023			
All Housing Types (Own), 2-3 BR	0.510	0.100	0.101	0.025			
All Values	0.259	0.155	0.063	0.041			
Below Median \$267,744	0.253	0.150	0.061	0.041			
Above Median \$267,744	0.266	0.160	0.065	0.041			
All Housing Types (Own),4-5 BR							
All Values	0.894	0.567	0.187	0.140			
Below Median \$576,679	0.877	0.555	0.187	0.135			
Above Median \$576,679	0.927	0.590	0.188	0.149			
All Housing Types (Rent), 0-1 BR							
All Values	0.108	0.061	0.026	0.022			
Below Median \$130,164	0.075	0.030	0.025	0.019			
Above Median \$130,164	0.142	0.092	0.027	0.024			
All Housing Types (Rent), 2-3 BR							
All Values	0.421	0.275	0.087	0.060			
Below Median \$181,901	0.493	0.341	0.088	0.064			
Above Median \$181,901	0.349	0.208	0.086	0.055			
All Housing Types (Rent), 4-5 BR							
All Values	0.663	0.393	0.134	0.136			
Below Median \$234,132	0.634	0.253	0.164	0.217			
Above Median \$234,132	0.698	0.557	0.100	0.041			

TABLE II-D-4 CENTRAL REGION OF NEW JERSEY STATISTICS FOR TOTAL PERSONS

		90% Confidence Interval Error					
STRUCTURE TYPE/	TOTAL T						
BEDROOMS/	TOTAL	Number of Households		low	hiah	Margin	
VALUE /TENURE	PERSONS	Households	Error	low	high	as %	
Single-Family Detached, 2-3							
BR All Values	2 570	22.014	0.005	2 422	2 724	6%	
Below Median \$308,935	2.578	32,014 18,425		2.422 2.299			
Above Median \$308,935	2.501						
	2.683	13,589	0.132	2.433	2.933	9%	
Single-Family Detached, 4-5 BR							
All Values	3.780	51,270	0.103	3.610	3.950		
Below Median \$576,679	3.738	33,421	0.128	3.527	3.949	6%	
Above Median \$576,679	3.860	17,849	0.182	3.560	4.159	8%	
Single-Family Attached, 2-3 BR							
All Values	2.296	25,154	0.097	2.136	2.456	7%	
Below Median \$267,744	2.345	,		2.137			
Above Median \$267,744	2.217	9,629		1.964			
Single-Family Attached, 4-5 BR		,,,,,			_,,,,		
All Values	4.497	1,510	0.724	3.306	5.689	26%	
Below Median \$308,935	5.169	,		3.326			
Above Median \$308,935	3.709			2.232			
5+ Units-Own & Rent, 0-1 BR							
All Values	1.603	9,850	0.116	1.412	1 794	12%	
Below Median \$131,483	1.468			1.217	1.719		
Above Median \$131,483	1.741	4,871		1.450			
5+ Units-Own & Rent, 2-3 BR	1.711	1,071	0.177	1.150	2.055	1770	
All Values	2.342	11,678	0 146	2.102	2 582	10%	
Below Median \$185,361	2.341	6,576		2.020		14%	
Above Median \$185,361	2.343			1.979			
2.4V % 0.4 PD							
2-4 Units, 0-1 BR	2.001	1 710	0.225	1 450	2.552	200/	
All Values	2.001	1,718		1.450			
Below Median \$128,187	1.688				2.363		
Above Median \$128,187	2.319	852	0.538	1.434	5.205	38%	
2-4 Units, 2-3 BR	2 (40	2 200	0.202	2.152	2 1 4 6	100/	
All Values	2.649	,		2.152	3.146		
Below Median \$185,361	2.808			2.107	3.509		
Above Median \$185,361	2.450	1,503	0.425	1.752	3.149	29%	

#### TABLE II-D-4 CENTRAL REGION OF NEW JERSEY STATISTICS FOR TOTAL PERSONS (Continued)

		90% Confidence Interval						
STRUCTURE TYPE/		Err						
BEDROOMS/	TOTAL	Number of	1		Margin			
VALUE /TENURE	PERSONS	Households	Error	low	high	as %		
All Housing Types (Own), 0-1								
BR								
All Values	2.078	2,322	0.297	1.589	2.566	24%		
Below Median \$185,361	1.815	1,365	0.347	1.245	2.385	31%		
Above Median \$185,361	2.451	957	0.533	1.575	3.327	36%		
All Housing Types (Own), 2-3								
BR								
All Values	2.397	· · · · · · · · · · · · · · · · · · ·		2.292		4%		
Below Median \$267,744	2.307	,		2.165		6%		
Above Median \$267,744	2.502	27,677	0.100	2.339	2.666	7%		
All Housing Types (Own),4-5								
BR All Values	2.702	52,000	0.102	2 (12	2.051	40/		
	3.782	,		3.613		4%		
Below Median \$576,679	3.746			3.537		6%		
Above Median \$576,679	3.851	17,967	0.181	3.554	4.149	8%		
All Housing Types (Rent), 0-1								
BR								
All Values	1.729	,		1.538		11%		
Below Median \$130,164	1.511	5,592		1.269	1.753	16%		
Above Median \$130,164	1.950	5,528	0.182	1.650	2.250	15%		
All Housing Types (Rent), 2-3 BR								
All Values	2.670	12,579	0.157	2.412	2.929	10%		
Below Median \$181,901	2.673	6,298	0.223	2.306	3.040	14%		
Above Median \$181,901	2.668	6,281	0.223	2.301	3.035	14%		
All Housing Types (Rent), 4-5								
BR								
All Values	4.803			3.158		34%		
Below Median \$234,132	4.435			2.353	6.517	47%		
Above Median \$234,132	5.236	411	1.597	2.609	7.863	50%		

#### TABLE II-D-5 CENTRAL REGION OF NEW JERSEY STATISTICS FOR SCHOOL-AGE CHILDREN (SAC)

		90% Confidence Interval Error					
STRUCTURE TYPE/	TOTAL	L Number of Standard					
BEDROOMS/ VALUE /TENURE	TOTAL SAC	Number of Households		low	high	Margin as %	
VALUE / TENURE	SAC	Householus	Liiui	10 W	ıngıı	as /0	
Single-Family Detached, 2-3 BR							
All Values	0.367	32,014	0.022	0.330	0.403	10%	
Below Median \$308,935	0.341	18,425		0.295	0.387	14%	
Above Median \$308,935	0.402			0.342			
Single-Family Detached, 4-5 BR		,					
All Values	1.094	51,270	0.037	1.033	1.156	6%	
Below Median \$576,679	1.050	ŕ		0.976	1.124	7%	
Above Median \$576,679	1.177	,		1.066	1.288	9%	
Single-Family Attached, 2-3 BR							
All Values	0.292	25,154	0.022	0.256	0.328	12%	
Below Median \$267,744	0.340			0.290	0.390	15%	
Above Median \$267,744	0.214	-		0.166	0.263	23%	
Single-Family Attached, 4-5 BR		,					
All Values	1.210	1,510	0.238	0.818	1.602	32%	
Below Median \$308,935	1.341	815		0.763	1.919	43%	
Above Median \$308,935	1.056	695	0.317	0.535	1.577	49%	
5+ Units-Own & Rent, 0-1 BR							
All Values	0.064	9,850	0.015	0.039	0.088	38%	
Below Median \$131,483	0.051	4,979	0.019	0.021	0.082	60%	
Above Median \$131,483	0.077	4,871	0.023	0.038	0.115	50%	
5+ Units-Own & Rent, 2-3 BR							
All Values	0.373	11,678	0.037	0.311	0.435	17%	
Below Median \$185,361	0.406	6,576	0.053	0.320	0.493	21%	
Above Median \$185,361	0.330	5,102	0.052	0.243	0.416	26%	
2-4 Units, 0-1 BR							
All Values	0.276	1,718	0.081	0.143	0.410	48%	
Below Median \$128,187	0.241	866		0.068	0.415	72%	
Above Median \$128,187	0.312	852		0.108		65%	
2-4 Units, 2-3 BR							
All Values	0.405	3,388	0.073	0.284	0.526	30%	
Below Median \$185,361	0.542	1,885		0.346	0.738	36%	
Above Median \$185,361	0.233	1,503	0.078	0.104	0.362	55%	

TABLE II-D-5 CENTRAL REGION OF NEW JERSEY STATISTICS FOR SCHOOL-AGE CHILDREN (SAC) (Continued)

		90% Confidence Interval						
STRUCTURE TYPE/		Err						
BEDROOMS/ VALUE /TENURE	TOTAL SAC	Number of Households	Standard Error	low	high	Margin		
VALUE/TENURE	SAC	Housenoids	Error	low	nign	as %		
All Housing Types (Own), 0-1								
BR								
All Values	0.275	2,322	0.070	0.160	0.389	42%		
Below Median \$185,361	0.214	1,365	0.078	0.085	0.342	60%		
Above Median \$185,361	0.362	957	0.128	0.150	0.573	58%		
All Housing Types (Own), 2-3								
BR All Values	0.200	50.655	0.015	0.204	0.222	00/		
	0.308	· /		0.284		8%		
Below Median \$267,744	0.300			0.267		11%		
Above Median \$267,744	0.317	27,677	0.022	0.281	0.353	11%		
All Housing Types (Own),4-5 BR								
All Values	1.092	52,008	0.037	1.031	1.153	6%		
Below Median \$576,679	1.051	34,041		0.978	1.124	7%		
Above Median \$576,679	1.170			1.059	1.280	9%		
All Housing Types (Rent), 0-1								
BR								
All Values	0.110	11,120	0.019	0.079	0 141	28%		
Below Median \$130,164	0.075	,	0.021		0.110	47%		
Above Median \$130,164	0.146		0.031		0.197	35%		
All Housing Types (Rent), 2-3	0.1.0	0,020	0.051	0.056	0.15,	20,0		
BR								
All Values	0.512	12,579	0.044	0.439	0.585	14%		
Below Median \$181,901	0.578	6,298	0.068	0.466	0.690	19%		
Above Median \$181,901	0.446	6,281	0.057	0.352	0.541	21%		
All Housing Types (Rent), 4-5								
BR								
All Values	1.491	894		0.890		40%		
Below Median \$234,132	1.002		0.365		1.603	60%		
Above Median \$234,132	2.066	411	0.703	0.909	3.223	56%		

#### TABLE II-D-6 CENTRAL REGION OF NEW JERSEY STATISTICS FOR PUBLIC SCHOOL CHILDREN (PSC)

		90% Confidence Interval										
STRUCTURE TYPE/	TOTAL											Error
BEDROOMS/ VALUE /TENURE	TOTAL PSC	Number of Households		low	high	Margin as %						
VALUE/TENURE	rsc	nousenoius	Error	IOW	mgn	as 70						
Single-Family Detached, 2-3 BR												
All Values	0.304	32,014	0.022	0.267	0.340	12%						
Below Median \$308,935	0.282			0.236								
Above Median \$308,935	0.333	· · · · · · · · · · · · · · · · · · ·		0.274		18%						
Single-Family Detached, 4-5 BR		- ,										
All Values	0.902	51,270	0.035	0.844	0.960	6%						
Below Median \$576,679	0.885	· /		0.815		8%						
Above Median \$576,679	0.933	· · · · · ·		0.832	1.034	11%						
Single-Family Attached, 2-3 BR												
All Values	0.251	25,154	0.022	0.214	0.288	15%						
Below Median \$267,744	0.287			0.236	0.338	18%						
Above Median \$267,744	0.192	9,629	0.031	0.140	0.243	27%						
Single-Family Attached, 4-5 BR												
All Values	0.449	1,510	0.130	0.235	0.663	48%						
Below Median \$308,935	0.202			0.021	0.384	90%						
Above Median \$308,935	0.738	695	0.266	0.301	1.175	59%						
5+ Units-Own & Rent, 0-1 BR												
All Values	0.062	9,850	0.017	0.034	0.089	45%						
Below Median \$131,483	0.051	4,979	0.021	0.016	0.087	68%						
Above Median \$131,483	0.072	4,871	0.026	0.030	0.115	59%						
5+ Units-Own & Rent, 2-3 BR												
All Values	0.308	11,678	0.037	0.246	0.369	20%						
Below Median \$185,361	0.358	6,576	0.054	0.269	0.448	25%						
Above Median \$185,361	0.242	5,102	0.049	0.162	0.323	33%						
2-4 Units, 0-1 BR												
All Values	0.264	1,718	0.089	0.118	0.409	55%						
Below Median \$128,187	0.216	866	0.111	0.033	0.399	85%						
Above Median \$128,187	0.312	852	0.139	0.083	0.541	73%						
2-4 Units, 2-3 BR												
All Values	0.330	3,388	0.072	0.211	0.448	36%						
Below Median \$185,361	0.435	,	0.114	0.247	0.623	43%						
Above Median \$185,361	0.198	1,503	0.080	0.065	0.330	67%						

#### TABLE II-D-6 CENTRAL REGION OF NEW JERSEY STATISTICS FOR PUBLIC SCHOOL CHILDREN (PSC) (Continued)

		90% Confidence Interval					
STRUCTURE TYPE/		Erro					
BEDROOMS/	TOTAL	Number of				Margin	
VALUE /TENURE	PSC	Households	Error	low	high	as %	
All Housing Types (Own), 0-1							
BR							
All Values	0.236	2,322	0.071	0.118	0.353	50%	
Below Median \$185,361	0.183	1,365	0.081	0.050	0.316	73%	
Above Median \$185,361	0.310	957	0.131	0.095	0.525	69%	
All Housing Types (Own), 2-3							
BR							
All Values	0.259	,		0.235		9%	
Below Median \$267,744	0.253	31,978	0.020	0.220	0.285	13%	
Above Median \$267,744	0.266	27,677	0.022	0.230	0.303	14%	
All Housing Types (Own),4-5							
BR							
All Values	0.894	,		0.838		6%	
Below Median \$576,679	0.877	34,041		0.808		8%	
Above Median \$576,679	0.927	17,967	0.061	0.827	1.027	11%	
All Housing Types (Rent), 0-1							
BR	0.100	11 120	0.001	0.053	0.1.10	220/	
All Values	0.108	,		0.073		32%	
Below Median \$130,164	0.075			0.034		54%	
Above Median \$130,164	0.142	5,528	0.035	0.085	0.200	40%	
All Housing Types (Rent), 2-3 BR							
All Values	0.421	12,579	0.043	0.350	0.492	17%	
Below Median \$181,901	0.493			0.382		23%	
Above Median \$181,901	0.349	,		0.362		26%	
All Housing Types (Rent), 4-5	0.549	0,201	0.033	0.233	U.TJ)	2070	
BR							
All Values	0.663	894	0.218	0.305	1.022	54%	
Below Median \$234,132	0.634	483		0.160	1.107	75%	
Above Median \$234,132	0.698	411	0.333	0.151	1.246	78%	

## E. NEW JERSEY GENERAL APPLICATION RESIDENTIAL MULTIPLIERS:

### SOUTHERN NEW JERSEY<sup>3</sup>

#### **Tables**

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<sup>3</sup> Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, and Salem counties.

TABLE II-E-1 SOUTH REGION OF NEW JERSEY TOTAL PERSONS AND PERSONS BY AGE

STRUCTURE TYPE/	TOTAL	AGE							
BEDROOMS/ VALUE /TENURE	TOTAL PERSONS	0-4	5-17	18-34	35-44	45-54	55-64	65-74	-75+
Single-Family Detached, 2-3 BR									
All Values	2.822	0.290	0.537	0.602	0.606	0.320	0.220	0.160	0.087
Below Median \$226,552	2.872	0.296							0.037
Above Median \$226,552	2.764								0.079
Single-Family Detached, 4-5 BR	2.704	0.264	0.479	0.517	0.575	0.575	0.290	0.141	0.097
All Values	3.728	0.431	1 0/10	0.587	0.988	0.448	0.135	0.056	0.035
Below Median \$370,722	3.753	0.437							0.033
Above Median \$370,722	3.688								0.030
Single-Family Attached, 2-3 BR									
All Values	2.232	0.178	0.317	0.648	0.432	0.318	0.175	0.112	0.053
Below Median \$185,361	2.193	0.185	0.355	0.663	0.468	0.265	0.125	0.087	0.044
Above Median \$185,361	2.305	0.165	0.244	0.620	0.364	0.417	0.269	0.157	0.068
Single-Family Attached, 4-5 BR									
All Values	3.255	0.220	0.689	0.925	0.636	0.229	0.202	0.298	0.055
Below Median \$308,935	3.563	0.231	0.794	1.462	0.692	0.115	0.164	0.000	0.105
Above Median \$308,935	2.920	0.208	0.576	0.345	0.576	0.352	0.242	0.621	0.000
5+ Units-Own & Rent, 0-1 BR									
All Values	1.278	0.043	0.052	0.221	0.117	0.102	0.099	0.179	0.464
Below Median \$98,859	1.194	0.023	0.050	0.059	0.066	0.113	0.136	0.249	0.498
Above Median \$98,859	1.365	0.065	0.054	0.389	0.171	0.090	0.060	0.106	0.430
5+ Units-Own & Rent, 2-3 BR									
All Values	2.030	0.071	0.251	0.738	0.343	0.190	0.208	0.107	0.121
Below Median \$148,619	2.142					0.171	0.199	0.096	0.082
Above Median \$148,619	1.914	0.032	0.145	0.658	0.372	0.210	0.217	0.119	0.161
2-4 Units, 0-1 BR									
All Values	2.078	0.093	0.523	0.768	0.101	0.169	0.122		0.222
Below Median \$112,041	1.931	0.085							0.187
Above Median \$112,041	2.232	0.101	0.552	0.826	0.059	0.223	0.214	0.000	0.258
2-4 Units, 2-3 BR									
All Values	2.571		0.581			0.144	0.184		0.067
Below Median \$140,051	2.812	0.281	0.861	0.832	0.452	0.155	0.179		0.031
Above Median \$140,051	2.323	0.345	0.291	0.815	0.333	0.132	0.188	0.113	0.105

#### TABLE II-E-1 SOUTH REGION OF NEW JERSEY TOTAL PERSONS AND PERSONS BY AGE (Continued)

STRUCTURE TYPE/ BEDROOMS/	TOTAL	AGE							
VALUE /TENURE	PERSONS	0-4	5-17	18-34	35-44	45-54	55-64	65-74	<b>-75</b> +
All Housing Types (Own), 0-1 BR									
All Values	2.605	0.189	0.517	0.661	0.441	0.261	0.234	0.145	0.157
Below Median \$156,527	2.815	0.234	0.612	0.765	0.358	0.272	0.269	0.111	0.195
Above Median \$156,527	2.331	0.132	0.393	0.526	0.550	0.246	0.189	0.189	0.107
All Housing Types (Own), 2-3 BR									
All Values	2.566	0.239	0.423	0.608	0.531	0.319	0.216	0.150	0.081
Below Median \$226,552	2.493	0.224	0.415	0.655	0.529	0.275	0.171	0.149	0.074
Above Median \$226,552	2.702	0.267	0.438	0.521	0.536	0.398	0.299	0.151	0.094
All Housing Types (Own),4-5 BR									
All Values	3.710	0.426	1.037	0.586	0.979	0.444	0.141	0.062	0.036
Below Median \$370,722	3.742	0.435	1.069	0.647	1.017	0.377	0.105	0.060	0.032
Above Median \$370,722	3.661	0.414	0.986	0.491	0.919	0.547	0.197	0.064	0.043
All Housing Types (Rent), 0-1 BR									
All Values	1.451	0.058	0.141	0.313	0.125	0.113	0.106	0.165	0.428
Below Median \$98,859	1.305	0.027	0.102	0.145	0.072	0.110	0.139	0.248	0.462
Above Median \$98,859	1.601	0.090	0.182	0.488	0.179	0.117	0.072	0.079	0.393
All Housing Types (Rent), 2-3 BR									
All Values	2.490	0.210	0.564	0.811	0.446	0.187	0.135	0.063	0.073
Below Median \$148,288	2.494	0.271	0.651	0.814	0.392	0.120	0.142	0.049	0.056
Above Median \$148,288	2.486	0.150	0.477	0.809	0.501	0.253	0.129	0.076	0.091
All Housing Types (Rent), 4-5 BR									
All Values	4.314	0.129	1.171	2.000	0.714	0.257	0.000	0.043	0.000
Below Median \$220,785	4.392	0.243	0.541	3.000	0.338	0.189	0.000	0.081	0.000
Above Median \$220,785	4.227	0.000	1.879	0.879	1.136	0.333	0.000	0.000	0.000

TABLE II-E-2 SOUTH REGION OF NEW JERSEY SCHOOL-AGE CHILDREN (SAC)

STRUCTURE TYPE/ BEDROOMS/ VALUE/TENURE	TOTAL SAC	Elementary (K-6)	GRADE Junior High School (7-9)	High School (10-12)
a				·
Single-Family Detached, 2-3 BR	0.525	0.227	0.112	0.000
All Values	0.537	0.337	0.113	0.088
Below Median \$226,552	0.587	0.371	0.113	0.102
Above Median \$226,552	0.479	0.296	0.112	0.071
Single-Family Detached, 4-5 BR	4 0 40	0	0.010	0.405
All Values	1.049	0.654	0.210	0.185
Below Median \$370,722	1.078	0.648	0.232	0.198
Above Median \$370,722	1.003	0.664	0.174	0.165
Single-Family Attached, 2-3 BR				
All Values	0.317	0.183	0.064	0.070
Below Median \$185,361	0.355	0.215	0.071	0.069
Above Median \$185,361	0.244	0.123	0.049	0.071
Single-Family Attached, 4-5 BR				
All Values	0.689	0.533	0.111	0.045
Below Median \$308,935	0.794	0.580	0.213	0.000
Above Median \$308,935	0.576	0.481	0.000	0.095
5+ Units-Own & Rent, 0-1 BR				
All Values	0.052	0.034	0.011	0.007
Below Median \$98,859	0.050	0.024	0.012	0.014
Above Median \$98,859	0.054	0.044	0.009	0.000
5+ Units-Own & Rent, 2-3 BR				
All Values	0.251	0.168	0.053	0.030
Below Median \$148,619	0.354	0.237	0.065	0.052
Above Median \$148,619	0.145		0.041	0.008
2-4 Units, 0-1 BR				
All Values	0.523	0.179	0.141	0.203
Below Median \$112,041	0.497	0.179	0.085	0.272
Above Median \$112,041	0.552	0.221	0.200	0.131
2-4 Units, 2-3 BR	0.332	0.221	0.200	0.131
All Values	0.581	0.418	0.115	0.048
Below Median \$140,051	0.861	0.586	0.113	0.094
Above Median \$140,051	0.291	0.244	0.161	0.000

TABLE II-E-2 SOUTH REGION OF NEW JERSEY SCHOOL-AGE CHILDREN (SAC) (Continued)

STRUCTURE TYPE/ BEDROOMS/ VALUE /TENURE	TOTAL SAC	Elementary (K-6)	GRADE Junior High School (7-9)	High School (10-12)
All Housing Types (Own), 0-1 BR				
All Values	0.517	0.293	0.135	0.088
Below Median \$156,527	0.612	0.395	0.165	0.052
Above Median \$156,527	0.393	0.160	0.096	0.136
All Housing Types (Own), 2-3 BR				
All Values	0.423	0.264	0.085	0.074
Below Median \$226,552	0.415	0.264	0.074	0.076
Above Median \$226,552	0.438	0.264	0.104	0.070
All Housing Types (Own),4-5 BR				
All Values	1.037	0.649	0.205	0.182
Below Median \$370,722	1.069	0.645	0.229	0.195
Above Median \$370,722	0.986	0.655	0.169	0.162
All Housing Types (Rent), 0-1 BR				
All Values	0.141	0.064	0.035	0.043
Below Median \$98,859	0.102	0.037	0.011	0.055
Above Median \$98,859	0.182	0.092	0.060	0.030
All Housing Types (Rent), 2-3 BR				
All Values	0.564	0.349	0.134	0.081
Below Median \$148,288	0.651	0.385	0.160	0.105
Above Median \$148,288	0.477	0.313	0.108	0.056
All Housing Types (Rent), 4-5 BR				
All Values	1.171	0.650	0.521	0.000
Below Median \$220,785	0.541	0.365	0.176	0.000
Above Median \$220,785	1.879	0.970	0.909	0.000

TABLE II-E-3 SOUTH REGION OF NEW JERSEY PUBLIC SCHOOL CHILDREN (PSC)

		PUBLIC SCHOOL GRADE					
STRUCTURE TYPE/			Junior High				
BEDROOMS/ VALUE /TENURE	TOTAL PSC	Elementary (K-6)	School (7-9)	High School (10-12)			
Single-Family Detached, 2-3 BR							
All Values	0.459	0.278	0.100	0.081			
Below Median \$226,552	0.510	0.314	0.101	0.095			
Above Median \$226,552	0.399	0.236	0.099	0.064			
Single-Family Detached, 4-5 BR							
All Values	0.836	0.504	0.180	0.152			
Below Median \$370,722	0.879	0.517	0.201	0.161			
Above Median \$370,722	0.769	0.485	0.147	0.137			
Single-Family Attached, 2-3 BR							
All Values	0.282	0.160	0.057	0.065			
Below Median \$185,361	0.324	0.194	0.065	0.065			
Above Median \$185,361	0.204	0.095	0.042	0.066			
Single-Family Attached, 4-5 BR							
All Values	0.427	0.316	0.065	0.045			
Below Median \$308,935	0.570	0.444	0.126	0.000			
Above Median \$308,935	0.273	0.178	0.000	0.095			
5+ Units-Own & Rent, 0-1 BR							
All Values	0.052	0.034	0.011	0.007			
Below Median \$98,859	0.050	0.024	0.012	0.014			
Above Median \$98,859	0.054	0.044	0.009	0.000			
5+ Units-Own & Rent, 2-3 BR							
All Values	0.225	0.148	0.052	0.025			
Below Median \$148,619	0.311	0.204	0.065	0.042			
Above Median \$148,619	0.137	0.090	0.038	0.008			
2-4 Units, 0-1 BR							
All Values	0.523	0.179	0.141	0.203			
Below Median \$112,041	0.497	0.140	0.085	0.272			
Above Median \$112,041	0.552	0.221	0.200	0.131			
2-4 Units, 2-3 BR							
All Values	0.517	0.355	0.115	0.048			
Below Median \$140,051	0.783	0.509	0.181	0.094			
Above Median \$140,051	0.243	0.196	0.047	0.000			

TABLE II-E-3 SOUTH REGION OF NEW JERSEY PUBLIC SCHOOL CHILDREN (PSC) (Continued)

		PUBLI		SCHOOL GRADE					
STRUCTURE TYPE/ BEDROOMS/ VALUE /TENURE	TOTAL PSC	Elementary (K-6)	Junior High School (7-9)	High School (10-12)					
All Housing Types (Own), 0-1 BR									
All Values	0.459	0.250	0.120	0.088					
Below Median \$156,527	0.583	0.366	0.165	0.052					
Above Median \$156,527	0.296	0.099	0.061	0.136					
All Housing Types (Own), 2-3 BR									
All Values	0.363	0.219	0.075	0.069					
Below Median \$226,552	0.362	0.226	0.065	0.071					
Above Median \$226,552	0.364	0.207	0.093	0.064					
All Housing Types (Own),4-5 BR									
All Values	0.823	0.498	0.175	0.150					
Below Median \$370,722	0.869	0.513	0.196	0.159					
Above Median \$370,722	0.751	0.474	0.142	0.135					
All Housing Types (Rent), 0-1 BR									
All Values	0.134	0.060	0.031	0.043					
Below Median \$98,859	0.102	0.037	0.011	0.055					
Above Median \$98,859	0.167	0.084	0.053	0.030					
All Housing Types (Rent), 2-3 BR									
All Values	0.510	0.310	0.129	0.071					
Below Median \$148,288	0.577	0.336	0.155	0.086					
Above Median \$148,288	0.442	0.283	0.103	0.056					
All Housing Types (Rent), 4-5 BR									
All Values	1.171	0.650	0.521	0.000					
Below Median \$220,785	0.541	0.365	0.176	0.000					
Above Median \$220,785	1.879	0.970	0.909	0.000					

TABLE II-E-4 SOUTH REGION OF NEW JERSEY STATISTICS FOR TOTAL PERSONS

		90% Confidence Inter-					
STRUCTURE TYPE/	mom		a			Error	
BEDROOMS/ VALUE /TENURE	TOTAL PERSONS	Number of Households	Standard Error	low	high	Margin as %	
- THEEL THICKE	LINGTE	Trouserrorus	Ellor	10 11	****	45 70	
Single-Family Detached, 2-3							
BR					• • • • •		
All Values	2.822			2.633		7%	
Below Median \$226,552	2.872	-		2.609			
Above Median \$226,552	2.764	11,666	0.168	2.488	3.040	10%	
Single-Family Detached, 4-5 BR							
All Values	3.728	25,398	0.146	3.487	3.969	6%	
Below Median \$370,722	3.753	15,574	0.190	3.442	4.065	8%	
Above Median \$370,722	3.688	9,824	0.236	3.299	4.076	11%	
Single-Family Attached, 2-3 BI	R						
All Values	2.232	13,310	0.131	2.017	2.447	10%	
Below Median \$185,361	2.193			1.930			
Above Median \$185,361	2.305	-		1.927			
Single-Family Attached, 4-5 BI		,,,,,	*****				
All Values	3.255	550	0.899	1.776	4.733	45%	
Below Median \$308,935	3.563			1.341	5.785		
Above Median \$308,935	2.920			0.980			
5+ Units-Own & Rent, 0-1 BR							
All Values	1.278	4,741	0.140	1.047	1.508	18%	
Below Median \$98,859	1.194			0.888	1.500		
Above Median \$98,859	1.365				1.712		
5+ Units-Own & Rent, 2-3 BR	1.500	_,,,,	0.211	1.017	1., 12	_0,0	
All Values	2.030	4,751	0.203	1.695	2.364	16%	
Below Median \$148,619	2.142			1.650			
Above Median \$148,619	1.914			1.460			
2-4 Units, 0-1 BR							
All Values	2.078	875	0 484	1.281	2 874	38%	
Below Median \$112,041	1.931			0.885			
Above Median \$112,041	2.232			1.020			
2-4 Units, 2-3 BR		.20	0.757	1.020	2.1.5	2 1/0	
All Values	2.571	1,726	0.413	1.892	3 250	26%	
Below Median \$140,051	2.812			1.782			
Above Median \$140,051	2.323			1.434			

TABLE II-E-4 SOUTH REGION OF NEW JERSEY STATISTICS FOR TOTAL PERSONS (Continued)

		90% Confidence Interval					
STRUCTURE TYPE/	mom	Err					
BEDROOMS/ VALUE /TENURE	TOTAL PERSONS	Number of S Households	Standard Error	low	high	Margin as %	
VALUE/TENURE	LEKSONS	Householus	EIIOI	IOW	ıngıı	as 70	
All Housing Types (Own), 0-1							
BR							
All Values	2.605	,		1.725		34%	
Below Median \$156,527	2.815	595	0.761		4.067	44%	
Above Median \$156,527	2.331	456	0.739	1.115	3.547	52%	
All Housing Types (Own), 2-3 BR							
All Values	2.566	38,458	0.085	2.426	2.706	5%	
Below Median \$226,552	2.493	24,966	0.104	2.322	2.664	7%	
Above Median \$226,552	2.702	13,492	0.153	2.451	2.954	9%	
All Housing Types (Own),4-5							
BR							
All Values	3.710			3.473		6%	
Below Median \$370,722	3.742	15,759		3.433		8%	
Above Median \$370,722	3.661	10,143	0.231	3.282	4.041	10%	
All Housing Types (Rent), 0-1 BR							
All Values	1.451	5,563	0.143	1.216	1 686	16%	
Below Median \$98,859	1.305	2,826			1.609	23%	
Above Median \$98,859	1.601	2,737		1.238		23%	
All Housing Types (Rent), 2-3	1.001	2,737	0.221	1.230	1.501	2370	
BR							
All Values	2.490	6,664	0.204	2.155	2.825	13%	
Below Median \$148,288	2.494	3,334	0.289	2.018	2.969	19%	
Above Median \$148,288	2.486	3,330	0.288	2.012	2.961	19%	
All Housing Types (Rent), 4-5							
BR							
All Values	4.314	140	2.293	0.542	8.086	87%	
Below Median \$220,785	4.392	74	3.205			120%	
Above Median \$220,785	4.227	66	3.279	0.000	9.621	128%	

TABLE II-E-5 SOUTH REGION OF NEW JERSEY STATISTICS FOR SCHOOL-AGE CHILDREN (SAC)

Number of Standard Households   Error   Image: New Households   Image: New H			90% Confidence Inter					
Single-Family Detached, 2-3 BR         All Values         0.537         25,335         0.032         0.484         0.590         1           Below Median \$226,552         0.587         13,669         0.047         0.510         0.663         1           Above Median \$226,552         0.479         11,666         0.044         0.407         0.551         1           Single-Family Detached, 4-5 BR         1.049         25,398         0.051         0.964         1.133           Below Median \$370,722         1.078         15,574         0.067         0.967         1.188         1           Above Median \$370,722         1.003         9,824         0.081         0.870         1.135         1           Single-Family Attached, 2-3 BR         1.049         25,398         0.051         0.964         1.133         1           Below Median \$370,722         1.003         9,824         0.081         0.870         1.135         1           Single-Family Attached, 2-3 BR         1.049         25,398         0.042         0.265         0.369         1           All Values         0.689         550         0.261         0.260         1.118         6           Single-Family Attached, 4-5 BR         4.741	BEDROOMS/	_		Standard			Error Margin	
BR All Values Below Median \$226,552 Above Median \$226,552 Single-Family Detached, 4-5 BR All Values Below Median \$370,722 Above Median \$38,361 Above Median \$185,361 Above Median \$185,361 Above Median \$185,361 Above Median \$308,935 Above Median \$308,935 Above Median \$308,935 Above Median \$308,935 Above Median \$98,859 Above Median \$98,859 Above Median \$98,859 Above Median \$148,619 Above Median \$148,619 Above Median \$148,619 All Values Below Median \$112,041 Below Median \$112,041 Below Median \$112,041 Below Median \$112,041 Below Median \$12,041 B	VALUE /TENURE	SAC	Households	Error	low	high	as %	
BR All Values Below Median \$226,552 Above Median \$226,552 Single-Family Detached, 4-5 BR All Values Below Median \$370,722 Above Median \$38,361 Above Median \$185,361 Above Median \$185,361 Above Median \$185,361 Above Median \$308,935 Above Median \$308,935 Above Median \$308,935 Above Median \$308,935 Above Median \$98,859 Above Median \$98,859 Above Median \$148,619 Above Median \$148,619 Above Median \$148,619 All Values Below Median \$148,619 Above Median \$148,619 All Values Below Median \$112,041 Below Median \$112,041 Below Median \$112,041 Below Median \$12,041 Below Media	Single-Family Detached 2-3							
All Values Below Median \$226,552 Above Median \$226,552 Above Median \$226,552 All Values Below Median \$370,722 Above Median \$3870,722 Above Median \$3870,722 Above Median \$185,361 Above Median \$185,361 Above Median \$185,361 Above Median \$308,935 Above Median \$98,859 Above Median \$98,859 Above Median \$148,619 Above Median \$148,619 Above Median \$148,619 All Values Below Median \$148,619 All Values Below Median \$148,619 All Values Below Median \$148,619 Above Median \$112,041 Above Median \$12,041	•							
Below Median \$226,552		0.537	25,335	0.032	0.484	0.590	10%	
Above Median \$226,552 Single-Family Detached, 4-5 BR All Values Below Median \$370,722 Above Median \$370,722  Single-Family Attached, 2-3 BR All Values Below Median \$185,361 Above Median \$185,361 Above Median \$308,935 Above Median \$308,935 Above Median \$308,935 Above Median \$98,859 Above Median \$98,859 Above Median \$148,619 Above Median \$112,041 Above Median \$12,041 Above Median \$112,041 Above	Below Median \$226,552		,					
Single-Family Detached, 4-5 BR   All Values   1.049   25,398   0.051   0.964   1.133   1.078   15,574   0.067   0.967   1.188   1.078   1.003   9,824   0.081   0.870   1.135   1.003   0.870   1.135   1.003   0.870   1.135   1.003   0.870   1.135   1.003   0.870   1.135   1.003   0.870   1.135   1.003   0.870   1.135   1.003   0.870   1.135   1.003   0.870   1.135   1.003   0.870   1.135   1.003   0.870   1.135   1.003   0.870   1.135   1.004   0.081   0.870   1.135   1.004   0.081   0.870   1.135   1.004   0.081   0.870   1.135   1.004   0.081   0.870   1.135   1.004   0.004   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.206   0.20			· /					
All Values   1.049   25,398   0.051   0.964   1.133   1.078   15,574   0.067   0.967   1.188   1.078   1.078   1.078   1.078   1.078   1.078   1.078   1.078   1.078   1.078   1.078   1.078   1.078   1.078   1.078   1.078   1.078   1.078   1.078   1.078   1.078   1.078   1.078   1.078   1.135   1.078   1.078   1.078   1.078   1.078   1.135   1.078   1.078   1.078   1.135   1.078   1.078   1.078   1.135   1.078   1.078   1.078   1.135   1.078   1.078   1.135   1.078   1.078   1.135   1.078   1.135   1.078   1.078   1.135   1.078   1.135   1.078   1.135   1.078   1.135   1.078   1.135   1.078   1.135   1.078   1.135   1.078   1.135   1.078   1.135   1.078   1.135   1.078   1.135   1.078   1.135   1.078   1.135   1.078   1.135   1.078   1.135   1.078   1.135   1.078   1.135   1.078   1.135   1.078   1.135   1.078   1.135   1.078   1.135   1.078   1.135   1.078   1.135   1.078   1.135   1.078   1.135   1.078   1.135   1.078   1.135   1.078   1.135   1.078   1.135   1.078   1.135   1.078   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135   1.135	•		,					
Below Median \$370,722		1 040	25 200	0.051	0.064	1 122	00/	
Single-Family Attached, 2-3 BR			· · · · · · · · · · · · · · · · · · ·					
Single-Family Attached, 2-3 BR         All Values       0.317       13,310       0.032       0.265       0.369       1         Below Median \$185,361       0.355       8,690       0.042       0.286       0.425       1         Above Median \$185,361       0.244       4,620       0.046       0.168       0.319       3         Single-Family Attached, 4-5 BR       All Values       0.689       550       0.261       0.260       1.118       6         Below Median \$308,935       0.794       286       0.400       0.136       1.451       8         Above Median \$308,935       0.576       264       0.332       0.029       1.122       9         5+ Units-Own & Rent, 0-1 BR       0.052       4,741       0.019       0.020       0.084       6         Above Median \$98,859       0.050       2,421       0.026       0.007       0.093       8         5+ Units-Own & Rent, 2-3 BR       All Values       0.251       4,751       0.046       0.175       0.327       3         Below Median \$148,619       0.354       2,409       0.080       0.223       0.486       3         Above Median \$148,619       0.145       2,342       0.048       0.			,					
All Values Below Median \$185,361 Above Median \$185,361 Single-Family Attached, 4-5 BR All Values Below Median \$308,935 Above Median \$308,935 Above Median \$98,859 Above Median \$98,859 Above Median \$148,619 Above Median \$148,619 All Values Below Median \$148,619 Below Median \$148,619 All Values Below Median \$148,619 Below Median \$112,041  13,310 0.032 0.265 0.369 1 4,620 0.046 0.168 0.319 3  8,690 0.046 0.168 0.319 3  8,690 0.046 0.168 0.319 3  8,690 0.046 0.168 0.319 3  4,620 0.046 0.168 0.319 3  4,620 0.046 0.168 0.319 3  4,620 0.046 0.168 0.319 3  4,620 0.046 0.108 0.261 0.260 1.118 6 0.689 550 0.261 0.260 1.118 6 0.471 0.019 0.020 0.084 6 0.097 0.093 8 4,741 0.019 0.020 0.084 6 0.097 0.093 8 4,741 0.019 0.020 0.084 6 0.097 0.093 8 4,741 0.019 0.020 0.084 6 0.097 0.093 8 4,741 0.019 0.020 0.084 6 0.007 0.093 8 6 0.052 0.054 0.052 0.054 0.054 0.054 0.054 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.058 0.068 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.060 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.060 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.069 0.060 0.069 0.060 0.060 0.060 0.060 0.060 0.060 0.060 0.060 0.060 0.060 0.060 0.060 0.060 0.060 0.060 0.060 0.060 0.060 0.060 0.060 0.060 0.060 0.060 0.060 0.060 0.060 0.060 0.060 0.060 0.060 0.06	Above Median \$3/0,/22	1.003	9,824	0.081	0.870	1.135	13%	
Below Median \$185,361 Above Median \$185,361 Single-Family Attached, 4-5 BR All Values Below Median \$308,935 Above Median \$308,935 Above Median \$98,859 Above Median \$98,859 Above Median \$148,619 All Values Below Median \$148,619 All Values Below Median \$148,619 Above Median \$148,619 Below Median \$148,619 Above Median \$148,619 Below Median \$148,619 Below Median \$148,619 Below Median \$148,619 Above Median \$148,619 Below Median \$148,619 Belo	Single-Family Attached, 2-3 BR							
Above Median \$185,361 Single-Family Attached, 4-5 BR All Values Below Median \$308,935 Above Median \$308,935  Above Median \$98,859 All Values Below Median \$98,859 S+ Units-Own & Rent, 2-3 BR All Values Below Median \$148,619 Above Median \$148,619  2-4 Units, 0-1 BR All Values Below Median \$148,619 Below Median \$112,041  0.244  4,620 0.046 0.168 0.319 3  4,620 0.046 0.168 0.319 3  4,620 0.046 0.168 0.319 3  4,620 0.046 0.168 0.319 3  4,620 0.046 0.168 0.319 3  4,620 0.046 0.168 0.319 3  4,620 0.046 0.168 0.319 3  4,620 0.046 0.168 0.319 3  4,620 0.046 0.168 0.319 3  4,620 0.046 0.108 0.108 0.109 0.020 0.084 0.007 0.093 0.093 0.094 0.095 0.094 0.097 0.093 0.094 0.097 0.094 0.097 0.094 0.097 0.094 0.097 0.094 0.097 0.094 0.097 0.094 0.097 0.094 0.097 0.093 0.094 0.097 0.094 0.097 0.094 0.097 0.094 0.097 0.094 0.097 0.094 0.097 0.094 0.097 0.093 0.098 0.098 0.097 0.093 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098	All Values	0.317	13,310	0.032	0.265	0.369	16%	
Single-Family Attached, 4-5 BR         All Values       0.689       550       0.261       0.260       1.118       6         Below Median \$308,935       0.794       286       0.400       0.136       1.451       8         Above Median \$308,935       0.576       264       0.332       0.029       1.122       9         5+ Units-Own & Rent, 0-1 BR       0.052       4,741       0.019       0.020       0.084       6         All Values       0.050       2,421       0.026       0.007       0.093       8         5+ Units-Own & Rent, 2-3 BR       0.054       2,320       0.028       0.008       0.100       8         5+ Units-Own & Rent, 2-3 BR       0.251       4,751       0.046       0.175       0.327       3         Below Median \$148,619       0.354       2,409       0.080       0.223       0.486       3         Above Median \$148,619       0.145       2,342       0.048       0.067       0.224       5         2-4 Units, 0-1 BR       0.523       875       0.171       0.242       0.805       5         Below Median \$112,041       0.497       449       0.231       0.117       0.876       7 <td>Below Median \$185,361</td> <td>0.355</td> <td>8,690</td> <td>0.042</td> <td>0.286</td> <td>0.425</td> <td>19%</td>	Below Median \$185,361	0.355	8,690	0.042	0.286	0.425	19%	
All Values Below Median \$308,935 Above Median \$308,935  5+ Units-Own & Rent, 0-1 BR All Values Below Median \$98,859 Above Median \$98,859 Above Median \$148,619 Above Median \$148,619 All Values Below Median \$148,619 All Values Below Median \$148,619 Above Median \$148	Above Median \$185,361	0.244	4,620	0.046	0.168	0.319	31%	
Below Median \$308,935	Single-Family Attached, 4-5 BR							
Above Median \$308,935  0.576  264  0.332  0.029  1.122  9  5+ Units-Own & Rent, 0-1 BR  All Values  Below Median \$98,859  Above Median \$98,859  5+ Units-Own & Rent, 2-3 BR  All Values  Below Median \$148,619  Above Median \$148,619  Above Median \$148,619  All Values  Below Median \$148,619  Above Median \$148,619  All Values  Below Median \$148,619  0.523  Below Median \$112,041  0.576  264  0.332  0.029  1.122  9  4,741  0.019  0.020  0.084  6  0.093  8  2,421  0.026  0.007  0.093  8  2,320  0.028  0.046  0.175  0.327  3  2,409  0.080  0.223  0.486  3  2,342  0.048  0.067  0.224  5	All Values	0.689	550	0.261	0.260	1.118	62%	
5+ Units-Own & Rent, 0-1 BR         All Values       0.052       4,741       0.019       0.020       0.084       6         Below Median \$98,859       0.050       2,421       0.026       0.007       0.093       8         Above Median \$98,859       0.054       2,320       0.028       0.008       0.100       8         5+ Units-Own & Rent, 2-3 BR       0.251       4,751       0.046       0.175       0.327       3         All Values       0.354       2,409       0.080       0.223       0.486       3         Above Median \$148,619       0.145       2,342       0.048       0.067       0.224       5         2-4 Units, 0-1 BR       0.523       875       0.171       0.242       0.805       5         Below Median \$112,041       0.497       449       0.231       0.117       0.876       7	Below Median \$308,935	0.794	286	0.400	0.136	1.451	83%	
All Values Below Median \$98,859 Above Median \$98,859 5+ Units-Own & Rent, 2-3 BR All Values Below Median \$148,619 Above Median \$148,619 Above Median \$148,619 All Values Below Median \$148,619 Above Median \$148,619 Above Median \$148,619  2-4 Units, 0-1 BR All Values Below Median \$112,041	Above Median \$308,935	0.576	264	0.332	0.029	1.122	95%	
All Values Below Median \$98,859 Above Median \$98,859 5+ Units-Own & Rent, 2-3 BR All Values Below Median \$148,619 Above Median \$148,619 Above Median \$148,619 All Values Below Median \$148,619 Above Median \$148,619 Above Median \$148,619 Above Median \$148,619  2-4 Units, 0-1 BR All Values Below Median \$112,041	5+ Units-Own & Rent, 0-1 BR							
Below Median \$98,859       0.050       2,421       0.026       0.007       0.093       8         Above Median \$98,859       0.054       2,320       0.028       0.008       0.100       8         5+ Units-Own & Rent, 2-3 BR       0.251       4,751       0.046       0.175       0.327       3         Below Median \$148,619       0.354       2,409       0.080       0.223       0.486       3         Above Median \$148,619       0.145       2,342       0.048       0.067       0.224       5         2-4 Units, 0-1 BR         All Values       0.523       875       0.171       0.242       0.805       5         Below Median \$112,041       0.497       449       0.231       0.117       0.876       7	· ·	0.052	4.741	0.019	0.020	0.084	61%	
Above Median \$98,859 5+ Units-Own & Rent, 2-3 BR All Values Below Median \$148,619 Above Median \$148,619  2,320 0.028 0.008 0.100 8 4,751 0.046 0.175 0.327 3 2,409 0.080 0.223 0.486 3 0.145 2,342 0.048 0.067 0.224 5  2-4 Units, 0-1 BR All Values Below Median \$112,041 0.523 875 0.171 0.242 0.805 5 810 0.497 0.231 0.117 0.876 7	Below Median \$98,859		,					
5+ Units-Own & Rent, 2-3 BR       0.251       4,751       0.046       0.175       0.327       3         Below Median \$148,619       0.354       2,409       0.080       0.223       0.486       3         Above Median \$148,619       0.145       2,342       0.048       0.067       0.224       5         2-4 Units, 0-1 BR         All Values       0.523       875       0.171       0.242       0.805       5         Below Median \$112,041       0.497       449       0.231       0.117       0.876       7			· /					
All Values  Below Median \$148,619  Above Median \$148,619  2-4 Units, 0-1 BR  All Values  Below Median \$112,041  All Values  0.251  4,751  0.046  0.175  0.327  3  2,409  0.080  0.223  0.486  3  2,342  0.048  0.067  0.224  5	5+ Units-Own & Rent, 2-3 BR		,					
Below Median \$148,619       0.354       2,409       0.080       0.223       0.486       3         Above Median \$148,619       0.145       2,342       0.048       0.067       0.224       5         2-4 Units, 0-1 BR         All Values       0.523       875       0.171       0.242       0.805       5         Below Median \$112,041       0.497       449       0.231       0.117       0.876       7	*	0.251	4,751	0.046	0.175	0.327	30%	
Above Median \$148,619 0.145 2,342 0.048 0.067 0.224 5  2-4 Units, 0-1 BR All Values 0.523 875 0.171 0.242 0.805 5 Below Median \$112,041 0.497 449 0.231 0.117 0.876 7	Below Median \$148,619		· /					
All Values 0.523 875 0.171 0.242 0.805 5 Below Median \$112,041 0.497 449 0.231 0.117 0.876 7	Above Median \$148,619		· · · · · · · · · · · · · · · · · · ·		0.067	0.224	54%	
All Values 0.523 875 0.171 0.242 0.805 5 Below Median \$112,041 0.497 449 0.231 0.117 0.876 7	2-4 Units 0-1 RR							
Below Median \$112,041 0.497 449 0.231 0.117 0.876 7	*	0.523	875	0 171	0 242	0.805	54%	
	-							
2-4 Units, 2-3 BR		0.552	720	0.234	0.134	0.709	7070	
, and the second	•	0.581	1 726	0.131	0.366	0 795	37%	
1,720 0.131 0.300 0.735 3			· · · · · ·					
,								

TABLE II-E-5 SOUTH REGION OF NEW JERSEY STATISTICS FOR SCHOOL-AGE CHILDREN (SAC) (Continued)

		90% Confidence Interval					
STRUCTURE TYPE/		1					
BEDROOMS/	TOTAL	Number of		1		Margin	
VALUE /TENURE	SAC	Households	Error	low	high	as %	
All Housing Types (Own), 0-1							
BR							
All Values	0.517	1,051	0.155	0.262	0.771	49%	
Below Median \$156,527	0.612	595	0.231	0.232	0.991	62%	
Above Median \$156,527	0.393	456	0.196	0.070	0.715	82%	
All Housing Types (Own), 2-3							
BR							
All Values		38,458		0.386		9%	
Below Median \$226,552		24,966	0.027	0.370	0.460	11%	
Above Median \$226,552	0.438	13,492	0.039	0.374	0.501	14%	
All Housing Types (Own),4-5							
BR							
All Values		25,902		0.953		8%	
Below Median \$370,722		15,759		0.959		10%	
Above Median \$370,722	0.986	10,143	0.078	0.857	1.115	13%	
All Housing Types (Rent), 0-1							
BR							
All Values		5,563		0.091		35%	
Below Median \$98,859		2,826		0.043		58%	
Above Median \$98,859	0.182	2,737	0.050	0.099	0.265	45%	
All Housing Types (Rent), 2-3 BR							
All Values	0.564	6,664	0.065	0.457	0.671	19%	
Below Median \$148,288	0.651	3,334	0.102	0.484	0.818	26%	
Above Median \$148,288	0.477	3,330	0.082	0.342	0.613	28%	
All Housing Types (Rent), 4-5							
BR							
All Values	1.171			0.000		107%	
Below Median \$220,785	0.541			0.000		746%	
Above Median \$220,785	1.879	66	1.622	0.000	4.547	142%	

TABLE II-E-6 SOUTH REGION OF NEW JERSEY STATISTICS FOR PUBLIC SCHOOL CHILDREN (PSC)

		90% Confidence Interval					
STRUCTURE TYPE/	TOTAL	N1	C411			Error	
BEDROOMS/ VALUE /TENURE	TOTAL PSC	Number of Households		low	high	Margin as %	
VALUE/TENURE	130	Householus	EIIUI	IOW	ıngıı	as /0	
Single-Family Detached, 2-3							
BR	0.450	25 225	0.022	0.406	0.510	110/	
All Values		25,335		0.406			
Below Median \$226,552		13,669		0.433			
Above Median \$226,552	0.399	11,666	0.043	0.328	0.471	18%	
Single-Family Detached, 4-5 BR							
All Values	0.836	25,398	0.047	0.758	0.914	9%	
Below Median \$370,722	0.879	15,574	0.063	0.776	0.982	12%	
Above Median \$370,722	0.769	9,824	0.072	0.650	0.888	15%	
Single-Family Attached, 2-3 BR							
All Values	0.282	13,310	0.033	0.228	0.337	19%	
Below Median \$185,361		8,690		0.228	0.337		
Above Median \$185,361		4,620		0.231			
Single-Family Attached, 4-5 BR	0.204	4,020	0.047	0.127	0.280	3670	
All Values	0.427	550	0.200	0.002	0.772	81%	
Below Median \$308,935	0.427			0.083 $0.000$	1.144		
Above Median \$308,935	0.370			0.000			
Above Median \$506,555	0.273	204	0.231	0.000	0.032	139%	
5+ Units-Own & Rent, 0-1 BR							
All Values	0.052	4,741	0.022	0.016	0.088	70%	
Below Median \$98,859	0.050	2,421	0.030	0.000	0.100	100%	
Above Median \$98,859	0.054	2,320	0.032	0.001	0.107	98%	
5+ Units-Own & Rent, 2-3 BR							
All Values	0.225	4,751	0.049	0.145	0.305	36%	
Below Median \$148,619	0.311	2,409	0.082	0.175	0.446	44%	
Above Median \$148,619	0.137	2,342	0.052	0.050	0.223	63%	
2-4 Units, 0-1 BR							
All Values	0.523	875	0.189	0.213	0.834	59%	
Below Median \$112,041	0.497			0.078			
Above Median \$112,041	0.552			0.091	1.012		
2-4 Units, 2-3 BR	0.552	0	0.200	0.071	1.012	2270	
All Values	0.517	1,726	0 133	0.298	0.737	42%	
Below Median \$140,051	0.783	· ·		0.378	1.188		
Above Median \$140,051	0.243			0.045			
· · · · · · · · · · · · · · · · · · ·	0.213		J.120	0.0.0	5.110	01/0	

TABLE II-E-6 SOUTH REGION OF NEW JERSEY STATISTICS FOR PUBLIC SCHOOL CHILDREN (PSC) (Continued)

		90% Confidence Interval					
STRUCTURE TYPE/		Err					
BEDROOMS/	TOTAL	Number of				Margin	
VALUE /TENURE	PSC	Households	Error	low	high	as %	
All Housing Types (Own), 0-1							
BR							
All Values	0.459	1,051	0.158	0.198	0.719	57%	
Below Median \$156,527	0.583	595	0.245	0.179	0.987	69%	
Above Median \$156,527	0.296	456	0.184	0.000	0.599	102%	
All Housing Types (Own), 2-3							
BR							
All Values	0.363	38,458	0.022	0.326	0.400	10%	
Below Median \$226,552	0.362	24,966	0.028	0.316	0.408	13%	
Above Median \$226,552	0.364	13,492	0.038	0.301	0.427	17%	
All Housing Types (Own),4-5							
BR							
All Values	0.823	,		0.746		9%	
Below Median \$370,722	0.869			0.767		12%	
Above Median \$370,722	0.751	10,143	0.070	0.636	0.867	15%	
All Housing Types (Rent), 0-1							
BR							
All Values	0.134	,		0.079		41%	
Below Median \$98,859	0.102			0.035		66%	
Above Median \$98,859	0.167	2,737	0.054	0.078	0.256	53%	
All Housing Types (Rent), 2-3 BR							
All Values	0.510	6,664	0.067	0.399	0.620	22%	
Below Median \$148,288	0.577	3,334		0.408		29%	
Above Median \$148,288	0.442	3,330		0.299		32%	
All Housing Types (Rent), 4-5	0.712	5,550	0.007	J. <b>L</b>	3.505	3270	
BR							
All Values	1.171	140	0.820	0.000	2.520	115%	
Below Median \$220,785	0.541	74	2.820	0.000	5.179	858%	
Above Median \$220,785	1.879	66	1.713	0.000	4.697	150%	

# PART TWO F. SPECIALIZED HOUSING RESIDENTIAL MULTIPLIERS: AGE-RESTRICTED HOUSING

#### AGE-RESTRICTED HOUSING: BACKGROUND AND DEMOGRAPHICS

As "baby boomers" age, there is a growing number of age-restricted developments, both nationally as well as in New Jersey. These developments typically require that one member of the household be at least 55 years old and that all other members must be at least 19 years of age.

While the Public Use Microdata Sample (PUMS) is an invaluable source for demographers, the PUMS does not allow specification of demographics for residents in age-restricted developments. In contrast, the American Housing Survey (AHS) does have a subset of data for "senior citizen communities," including separate specification for "communities that are age-restricted to those 55+." The authors accessed the 2003 AHS for recently built housing (built 1990 to 2003) in age-restricted developments and tabulated those figures by region of the United States. The detailed AHS data are found in table II-F-1. For the Northeast, the average household sizes of newly built (1990 or newer) age-restricted housing were as follows: 1.57 for single-family detached homes, 1.39 for single family detached homes, and 1.20 for multifamily units.

Table II-F-1 gives further age cohort detail for the occupants of the age-restricted units. For instance, most of the occupants are 55 to 74 years of age, followed by those in the 75 through 84 year age cohort.

TABLE II-F-1
TOTAL PERSONS AND PERSONS BY AGE IN AGE-RESTRICTED HOUSING IN THE NORTHEAST UNITED STATES

STRUCTURE									
TYPE/	_				<u>AGE</u>				
BEDROOMS/	TOTAL								
VALUE/TENURE	PERSONS	0-18	19-34	35-44	45-54	55-64	65-74	75-84	85+
					<u>PERSONS</u>				
Single-Family Detached									
All Values, Bedrooms, And Tenure	1.57	0.00	0.01	0.08	0.00	0.67	0.44	0.37	0.00
Single-Family Attached									
All Values, Bedrooms, And Tenure	1.39	0.00	0.00	0.00	0.00	0.09	0.61	0.48	0.21
Multi-Family	1.20	0.00	0.00	0.00	0.00	0.04	0.40	0.40	0.25
All Values, Bedrooms, And Tenure	1.20	0.00	0.00	0.00	0.00	0.04	0.42	0.49	0.25
All Housing Categories <sup>1</sup>	1.20	0.00	0.00	0.02	0.00	0.20	0.52	0.40	0.14
All Values, Bedrooms, And Tenure	1.38	0.00	0.00	0.02	0.00	0.28	0.53	0.40	0.14
-					PERCENTAC	<u>GES</u>			
Single-Family Detached									
All Values, Bedrooms, And Tenure	100%	0.00	0.01	0.05	0.00	0.43	0.28	0.23	0.00
a									
Single-Family Attached	1000/	0.00	0.00	0.00	0.00	0.06	0.44	0.25	0.15
All Values, Bedrooms, And Tenure	100%	0.00	0.00	0.00	0.00	0.06	0.44	0.35	0.15
Multi-Family									
All Values, Bedrooms, And Tenure	100%	0.00	0.00	0.00	0.00	0.03	0.35	0.41	0.21
,									
All Housing Categories									
All Values, Bedrooms, And Tenure	100%	0.00	0.00	0.01	0.00	0.21	0.39	0.29	0.10

<sup>&</sup>lt;sup>1</sup> Includes Mobile Homes

Source: 2003 American Housing Survey

### G. SPECIALIZED HOUSING RESIDENTIAL MULTIPLIERS: TRANSIT ORIENTED DEVELOPMENT HOUSING

### TRANSIT ORIENTED DEVELOPMENT: BACKGROUND AND DEMOGRAPHICS

Transit oriented developments (TODs), an important component of smart growth, offers many advantages such as reducing dependence on the automobile. Preliminary evidence suggests that TODs also generates few public school children, thus minimizing the impact on local school districts. This section considers the public school children generation of a sample of 10 New Jersey TODs. The major findings follow:

- Although the census is the best overall demographic source, the PUMS may not be accurate for certain specialized housing developments, such as TODs. Case study analysis of TODs therefore should be conducted.
- From the Alan M. Voorhees Transportation Center, the Office of Smart Growth, and other sources, Rutgers identified 10 constructed and occupied TODs in New Jersey (see table I-8). The 10 projects contained 2,183 housing units, all rental in tenure.
- Analysis of 10 TODs in New Jersey, with a total of 2,183 housing units, indicates that they generated 47 public school children (see exhibit II-G-1). That represents a public school children multiplier of 0.02 (47/2,183). In other words, every 100 housing units in infill developments generated only about 2 public school children.
- The public school children multipliers for the TOD projects are substantially lower than those indicated by the PUMS for housing in general. Based on the PUMS, this analysis would have projected that the 10 New Jersey TODs would have generated 285 public school children (exhibit II-G-2). That is far higher than the TODs' actual public school children yield of 47. The TOD's actual public school generation is about one-eighth the number of public school pupils from homes of similar type, size, tenure, and value yet are not specifically located near transit.
- While this analysis is preliminary, and one must monitor the demographics of TODs over time, the above-cited evidence suggests that TODs generate relatively few public school children. That is of interest to the host communities containing such projects because few public school children from TODs means that the TODs pose only modest demand on local school districts.

TABLE II-G-1
PUBLIC SCHOOL CHILDREN GENERATION FROM SELECTED TRANSIT
ORIENTED DEVELOPMENTS (TODs) IN NEW JERSEY

Project Profile		Size Pupil Generation		Pupil Multipliers	
Project Name	Location Tenure	Number of Units	Public School Children	Public School Children Multiplier <sup>a</sup>	
1. Jacobs Ferry	West Rental New York	254	0	0.00	
2. Riverwatch	New Rental Brunswick	200	1	0.01	
3. Chancery Square	Morris- Rental town	131	1	0.01	
4. Franklin Square	Metuchen Rental	105	10	0.10	
5. Gaslight Commons	South Rental Orange	200	6	0.03	
6. Riverbend I	West Rental New York	302	5	0.02	
7. Riverbend II	West Rental New York	212	4	0.02	
8. Riverside West	West Rental New York	344	5	0.01	
9. Harbor Place	West Rental New York	20	9	0.45	
10. Highlands at Plaza Square	New Rental Brunswick	415	6	0.01	
Total	_	2,183	47	0.02	

<sup>&</sup>lt;sup>a</sup> Equals public school children divide by the number of housing units.

Source: The project profile and project size information was derived from the developers of the indicated TODs. The public school children data from each TOD was obtained by contacting the public school district (s) serving the respective TODs.

#### **EXHIBIT II-G-2**

#### SAMPLE NEW JERSEY TRANSIT-ORIENTED DEVELOPMENTS

#### CENSUS-PROJECTED VERSUS ACTUAL PUBLIC SCHOOL CHILDREN GENERATED

Housing Type	Size *	Number of Units	Census-Based Public School Children Multipliers (2000 Census)	Census-Based Estimate of Project-Induced Public School Children (2000 Census)	Actual Public School Children ** Generated ††
Larger Multifam	ily (5+ units)				
Rent	1-Bedroom	764	0.05	38	
	2-Bedroom	1,244	0.12	149	
	3-Bedroom	175	0.56	98	
Project Total		2,183		285	47

Notes: \* Estimated

\*\* Equals number of units multiplied by respective demographic profile

Sources: † PUMS statewide data for New Jersey for above median value units.

Rutgers survey of affected host school districts; see Exhibit II-G-1

### H. SPECIALIZED HOUSING RESIDENTIAL MULTIPLIERS: *MOUNT LAUREL* (AFFORDABLE) HOUSING

#### MOUNT LAUREL HOUSING: BACKGROUND AND DEMOGRAPHICS

New Jersey communities have an obligation to provide affordable housing, often referred to after the state Supreme Court decision that enunciated that obligation as *Mount Laurel* housing. *Mount Laurel* units may be found in stand alone entirely affordable housing developments or more often are contained within larger developments that include both market-priced and below-market priced homes.

What is the demographic profile of the households living in new *Mount Laurel* housing units? There is no definitive answer to that query because there are no available data on the occupants of *Mount Laurel* housing. However, to begin to provide some information on the subject, the following demographics are presented.

From the 2000 U.S. Census 5-Percent Public Use Microdata Sample for New Jersey, it is possible to identify the demographic profile of low- and moderate-income (LMI) households in the state. Table II-H-1 presents that information. To illustrate, it indicates that all LMI New Jersey households on average contained 2.35 persons and 0.50 schoolage children, most of whom (0.45) attended public schools. Table II-H-1 provides further detail. For instance, the average number of public school children for New Jersey LMI households living in rental homes (in 5+ unit structures) as of the 2000 census was 0.14, 0.62, and 1.27 for 1-bedroom, 2-bedroom, and 3-bedroom units respectively. In owned units (in 5+ structures), the LMI households on average would contain 0.06, 0.18, and 054 public school children in the 1-bedroom, 2-bedroom, and 3-bedroom homes, respectively.

It is important to realize, however, that the occupants of Mount Laurel housing may not mirror the New Jersey LMI population profile. For instance, it is possible that only the more mobile or more knowledgeable or more relatively affluent LMI households will avail themselves of the Mount Laurel housing being offered in different communities throughout the state. Council on Affordable Housing occupancy standards (see table I-H-1) also bear on the demographic profile of Mount Laurel housing units. Thus, the data in table II-H-1 must be viewed as only a starting basis for framing the demographic profile of Mount Laurel housing.

More complete knowledge must await future survey of the occupants of such housing units. En route to that goal, the current investigation has begun to empirically investigate the public school children impact of *Mount Laurel* dwellings. Hopefully, this will be the start of follow-up future investigations.

The research protocol proceeded in the following manner. From the Council on Affordable Housing (COAH) and from other affordable housing groups in New Jersey, Rutgers obtained a list of *Mount Laurel* housing developments, both stand alone entirely affordable projects (termed "exclusively affordable") as well as *Mount Laurel* units intermixed with market rate housing (termed "inclusionary.") Rutgers then contacted the school districts

responsible for the *Mount Laurel* and market housing to ascertain the number of public school children (PSC) generated from these units. In many instances, the school districts could not or would not provide the requested information. However, Rutgers was able to obtain PSC data for 14 exclusively affordable *Mount Laurel* housing developments containing 1,335 affordable homes and for 19 other inclusionary housing developments, comprising a total of 6,463 housing units: 5,269 market-priced, and 1,194 *Mount Laurel* homes.

The 19 inclusionary projects with the total of 6,463 housing units contained a total of 1,540 public school children or an average of 0.24 per housing unit (1,540/6,463). The PSC generation ranged from a low of 0.14 per housing unit in one project to a high of 1.32 PSC per unit in another. However, since these inclusionary projects contain both market and affordable units, it is impossible from the existing data sources to differentiate the PSC yields from the market versus the below-market homes.

It is possible, however, to quantify the PSC generation from *Mount Laurel* units in the 14 exclusively affordable projects that were studied. The 14 contain 1,335 homes and their host school districts report a total of 577 public school children or 0.52 PSC per *Mount Laurel* housing units. While that figure comports closely with the 0.44 PSC multiplier for all LMI households in New Jersey as reported by the 2000 PUMS, that correspondence should not be viewed as definitive. Quantifying the demographic profile of the households found in the New Jersey *Mount Laurel* housing built to date is a work in progress and much more work needs to be done on this subject. In that light, we observe the considerable variation of the PSC yield from the 1,335 housing units in the 14 exclusively affordable *Mount Laurel* developments that were studied. That PSC generation per affordable housing unit ranged from 0.22 to 1.42.

There may be various reasons for that considerable range besides the inherent variability of the school yield in any given instance. The exclusively affordable *Mount Laurel* housing developments differ in their bedroom composition. Thus, the highest PSC yield, 1.43 per unit, was from a development of affordable homes that was exclusively 3-bedroom in size. Yet, another all 3-bedroom exclusively affordable *Mount Laurel* project has a 0.43 PSC generation per unit. Higher PSC yields were also generally associated with the rental *Mount Laurel* homes as opposed to their for-sale counterparts. Other factors, such as the quality of the local school districts (i.e., better school systems may attract *Mount Laurel* households with more children) may also play a role. In the current instance, there is simply insufficient data to definitively opine on the statistical influences on *Mount Laurel* housing school yields.

Until better data are available, the demographic profile of households in *Mount Laurel* housing is perhaps best approximated by the PUMS data on LMI households for New Jersey (table II-H-1). That data suggests a *Mount Laurel* household size of approximately 2.4 with about 0.50 school-age children, and about .45 public school children per unit. These demographics further differ by housing unit size (number of bedrooms) and housing tenure as is detailed in table II-H-1.

Table I-9
Household Size, School-Age Children, and Public School Children
For Low- and Moderate-Income Households (LMI) In New Jersey (2000)

	Total Persons	School- Age Children	Public School Children
All Housing			
Types and Bedrooms	2.35	0.50	0.45
Single-Family, Detached 2BR	1.95	0.24	0.21
3BR	2.49	0.51	0.46
4BR	3.07	0.83	0.73
Single-Family, Attached 2BR	2.09	0.35	0.32
3BR	3.05	0.86	0.78
5+ Units, Own 1BR	1.37	0.07	0.06
2BR	1.76	0.21	0.18
3BR	2.51	0.6	0.54
5+ Units, Rent 1BR	1.61	0.16	0.14
2BR	2.76	0.68	0.62
3BR	3.82	1.37	1.27

Source: U.S. Census of Population and Housing, Public Use Microdata Sample, 2000

Note: The Council on Affordable Housing (COAH) Uniform Housing Affordability Controls (UHAC) indicate the following occupancy standards: "A studio shall be affordable to a one person household; a one bedroom-unit shall be affordable to a one and one-half person household; a two bedroom unit shall be affordable to a three person household; a three bedroom unit shall be affordable to a four and one-half person household; and a four bedroom unit shall be affordable to a six person household." UHAC further indicates that "to the extent feasible...the administrative agent shall strive to: Provide an occupant for each unit bedroom; Provide children of different sex with separate bedrooms; and prevent more than two persons from occupying a single bedroom." While these standards bear on the relationship between housing unit size (bedrooms) and household size, we do not have empirical evidence on the number of persons found in different size COAH units. For instance, a "smaller" household (e.g., a 3-person household in a 3-bedroom unit) may be able to afford such a home with a larger down payment.

#### I. NONRESIDENTIAL MULTIPLIERS

#### NONRESIDENTAL MULTIPLIERS: ORGANIZATION AND FINDINGS

This section presents nonresidential multipliers or the number of employees per 1,000 square feet of nonresidential space (typically 1,000 square feet of gross floor area). The nonresidential multipliers are presented for the following nonresidential land uses.

Commercial

Office

Retail

Eating and drinking

Industrial

Warehouse

Manufacturing & industry

Hospitality and other

Lodging

Health

Schools

Based on a review of the national literature, the current investigation finds the following nonresidential multipliers.

Table II-I-1 Nonresidential Multipliers Suggested by National Studies

Nonresidential Use:	Nonresidential Multipliers (employees per 1,000 ft of gross floor area)
I. Commercial	
A. Office	3.0 to 4.0
B. Retail	1.0 to 2.0
C. Eating &Drinking	3.0 to 4.0
II. Industrial	
A. Warehouse	0.2 to 0.8
<ul><li>B. Manufacturing &amp; Industry</li></ul>	1.0 to 2.0
III. Hospitality and Other	
A. Lodging	0.5 to 1.0
B. Health	2.0 to 3.0
C. Schools	0.8 to 1.2

Source: Table II-I-2.

TABLE II-I-2 Summary of Statistics Derived from National Studies on Nonresidential Residential Multiplier

Non-		B. Statistics on Employees per 1,000ft <sup>2</sup>			G D 11D 4F 1
Residential	A. Source and Employees per 1000 ft <sup>2</sup>	Minimum –	Median	Mean	- C. Recommended Range of Employees per 1,000 ft <sup>2</sup>
Use		Maximum Range	Mealan	Mean	per 1,000 it
I. Commercia		1	1		T
A. Office	ITE Parking (1987) 2.68 ITE Trip Generation (1991) 3.30 CA Dept. Energy (1996)     Large Office 2.56     Small Office 3.58 ITE Trip Generation (1997) 4.00 BOMA (1997) 3.55 State of Washington (1998) 3.07 Portland OR Survey (1999) 3.64 San Diego Survey (2001) 3.21 CBECS (NE Data) (2001) 2.99	2.56 – 4.27	3.25	3.26	3.0 to 4.0 (The figure should be 3 or less in areas with larger amounts of R & D space. The type and amenity of the space, such as "corporate" versus "back" office will also affect office worker density.)
	Planners Estimating (2004) 3.05				
	Rutgers Regional (2004) 4.27				
B. Retail	CA Dept. Energy (1996) 1.70 Census of Retail (1997) 2.44 ITE Trip Generation (1997) 2.00 State of Washington (1998) .57 Portland OR Survey (1999) 1.67 CBECS (NE Data) (2001) 1.72 San Diego Survey (2001) 1.70 Planners Estimating (2004) 2.48	.57 – 2.48	1.71	1.50	1.0 to 2.0 (Figure will be closer to 1 in full time equivalent [FTE] employee basis and in areas experiencing "big box" development, smaller stores and "high end" retailers tend to have a higher worker density.)
C. Eating	CA Dept of Energy (1996) 4.90				3.0 to 4.0 (This figure clearly ranges
and Drinking	ITE Trip Generation (1991) Restaurant 8.70 Fast Food 14.29 CA Dept of Energy (1996) 4.90 CBECS (NE Data) (2001) .38	.38 – 14.29	6.26	1.33	significantly depending on type of eating establishment such as "fast food" or "sit down"; the indicated 3 to 4 range is a starting parameter that must be refined on a case by case basis.)
II. Industrial	KEE D. 1. (1007)	<u> </u>	1		0.04 0.0 (771 : 6"
A. Warehouse	ITE Parking (1987) .46 ITE Trip Generation (1991) 1.28 CA Dept of Energy (1996) .70 ARES Study (1997) 1.58 ITE Trip Generation (1997) 1.28 Portland OR Survey (1999) .59 CBECS (NE Data) (2001) 1.11 Rutgers (2006) 0.2	.02 – 1.58	.85	.59	0.2 to 0.8 (This figure varies tremendously; it will be higher for facilities that combine office and warehouse use ["flex space"] and lower for "pure" storage use.)
B. Manufactur ing	ITE Parking (1987)       2.42         ITE Trip Generation (1991)       1.96         ARES Study (1997)       2.61         ITE Trip Generation (1997)       1.82         State of Washington (1998)       1.70         Portland OR Survey (1999)       1.43         San Diego Survey (2001)       3.40         Planners Estimating (2004)       4.76	1.70 - 4.76	1.98	1.87	1.0 to 2.0 (The figure varies significantly by type of manufacturing, degree of mechanization, and other influences.)
III. Hospitalit	ty and Others	1	1		0.5 to 1.0 /This Co
A. Lodging	CA Dept of Energy (1996) .79 Portland OR Survey (1999) .67 CBECS (2001) .43 San Diego Survey (2001) 1.10 Energy Star Hosp. (2002) .57	.43 – 1.10	.66	.64	0.5 to 1.0 (This figure varies; it is higher for higher amenity lodging, and facilities with restaurant and convention space, and lower for budget accommodations.)
B. Health	CA Dept of Energy (1996) 2.99 ITE Trip Generation (1997) 3.25 State of Washington (1998) 2.00 Portland OR Survey (1999) 2.00 to 2.86 CBECS (2001) 2.18 Planners Estimating (2004) 2.62	2.00 – 3.25	2.62	2.47	2.0 to 3.0 (Figure varies by specific health application which can range tremendously. Medical office space is shown under the "office" category in this table.)
C. Schools	CA Dept of Energy (1996) 1.19 ITE Trip Generation (1997) .92 CBECS (NE Education) (2001) .77	.77 – 1.19	.92	.96	0.8 to 1.2 (Reflects indicated range. A limited number of studies challenge our knowledge on the subject.)

Source: Tables II-I-3 through II-I-9.

The nonresidential multiplier figures in tables II-I-1 and II-I-2 are presented as a range because there is far from unanimity on the number of employees per 1,000 square feet indicated in the variety of studies on the subject. That variability is evident in column A in table II-I-2 and the statistics shown in column B in that table.

As noted, the nonresidential multiplier information shown in tables II-I-1 and II-I-2 are based on national studies and therefore care must be exercised in applying these figures to New Jersey. For instance, a disproportionate amount of office space in New Jersey, compared to the nation, is used for research and development (e.g. in the state's significant pharmaceutical industry) and R&D office space tends to have relatively few employees (about 2) per 1,000 square foot. Further, macro economic and social trends, such as downsizing, mechanization, telecommuting, and work sharing are influencing and changing worker density, both in New Jersey and the nation at larger. Therefore, the table II-I-1 and II-I-2 figures should be viewed as a start rather than a last word on nonresidential multipliers.

As future researchers might be interested in the national studies assembled Rutgers on employee density by nonresidential land use, the remainder of this section reports on this data organized by nonresidential land use category.

#### Table II-I-3 Commercial – Office

Employees per 1000 ft<sup>2</sup> of Gross Floor Area (GFA)

### Source: Commercial Buildings Energy Consumption Survey (CBECS), Data for 1990 or Newer Construction

Type:	Employees per 1000 sq. ft. GFA:		
Office Professional - By Region:	Mean	Median	
Northeast	2.99	3.20	
Midwest	2.16	2.10	
South	1.97	1.78	
West	1.98	1.33	
Total	2.11	2.11	

### Source: Institute of Transportation Engineers (ITE), TRIP Generation $5^{\rm th}$ Edition, 1991

Type: (ITE use code)	Employees per 1000 sq. ft. GFA:
	Mean
(710) General Office Building - All	3.29
Less than 100,000 Sq. Ft.	3.39
100,000 to 200,000	3.84
201,000 to 500,000	3.22
More than 500,000	2.88
(714) Corporate Office Building	3.85
(715) Single Tenant Office	3.39
(720) Medical Office Building	4.83
(750) Office Park	3.59
(760) Research and Development Ctr.	2.47
(770) Business Park	3.01

## Source: Nelson, Arthur. 2004. Planner's Estimating Guide. "Projecting Land-Use and Facility Needs". Chicago: Planners Press, American Planning Association, p43. Gross Building Space Occupied Per Employee

Type:	Employees per 1000 sq. ft. GFA		
	Mean - Adjusted Net Area	Mean – Gross Area	
General Office	3.04	2.85	
Office Park	3.04	2.85	
Suburban Multilevel	3.04	2.98	
Subtotal Office	3.04	2.87	

Includes FIRE, services, and government.

Figures used to estimate future employment land use needs

Source: CA Department of Energy, 1996 Pacific Gas & Electric Survey

Type:	Employees per 1000 sq. ft. GFA:		
	Mean - Enclosed	Mean - Business	
Large Office	2.56	2.87	
Small Office	3.58	4.00	

Using Energy Weights

Codes: Large Office (>30K enclosed sq. ft.)  $\sim$  011 (admin, mgmt); 012 (financial, legal); 013 (insurance, real estate); 014 (other); Small Office ( $\leq$ 30K enclosed sq.ft.)  $\sim$  011; 012; 013; 014

Source: Puget Sound Regional Council, 1998 Industrial Land Supply and Demand in

the Central Puget Sound Region

Type:	Employees per 1000 sq. ft. GFA:
	Mean
Finance, Insurance, Real Estate	3.08
Producer Services	3.08
Consumer Services	3.08
Services (Proprietors)	3.08

### Source: Institute of Transportation Engineers (ITE), TRIP Generation 6<sup>th</sup> Edition, 1997

Type: (ITE use code)	Employees per 1000 sq. ft. GFA:
	Mean
(710) General Office Building – All	
10,000 Sq. Ft.	4.39
25,000 Sq. Ft.	4.04
50,000 Sq. Ft.	3.79
100,000 Sq. Ft.	3.57
200,000 Sq. Ft	3.35
(770) Business Park	3.16

### Source: Institute of Transportation Engineers (ITE), Parking Generation 2<sup>nd</sup> Edition, 1987

Type:	Employees per 1000 sq. ft. GFA:
	Mean
General Office	2.68

### **Source:** Building Owners and Managers Association (BOMA), 1996 Office Space Utilization Rates

Type:	Employees per 1000 sq. ft. GFA:	
	US	Canada
Private Sector	3.54	3.95

Source: Study by the San Diego Association of Governments, 2001

Type:	Employees per 1000 sq. ft. GFA:	
	Mean	
Average of All Building Types	3.20	

#### Source: Metro Employment Density Study: Portland, Oregon 1999

Type:		Employees per 1000 sq. ft. GFA:	
		Mean	
Finance		3.64	

**Table II-I-4 Commercial – Retail**Employees per 1000 ft<sup>2</sup> of Gross Floor Area

## Source: Commercial Buildings Energy Consumption Survey (CBECS), Data for 1990 or Newer Construction

Type:	Employees per 1000 sq. ft. GFA:	
Retail (food sales) – By Region	Mean	Median
Northeast	1.95	1.99
Midwest	0.83	0.80
South	1.49	1.33
West	1.42	1.60
Total	1.46	1.60

Retail (excluding mall) – By Region	Mean	Median
Northeast	1.79	2.00
Midwest	0.46	0.22
South	0.91	0.87
West	0.90	0.63
Total	1.02	0.87

Retail (enclosed mall) – By Region	Mean	Median
Northeast	2.25	2.63
Midwest	1.04	1.00
South	0.59	0.47
West	0.77	1.06
Total	1.23	0.79

Retail (strip shopping mall) – By Region	Mean	Median
Northeast	0.87	0.75
Midwest	1.86	1.56
South	1.63	1.44
West	2.39	1.45
Total	1.80	1.44

Source: US Census Bureau – Census of Retail Trade (CRT) 1997, Summary 1997 Economic CRT: Subject Series EC97R44S-SM, January 2001

Type:	Employees per 1000 sq. ft. GFA:			
	Mean – Total Space	Mean – Selling Space		
(445110) Supermarkets & other grocery stores (excl. convenience)	2.57	3.47		
(445120) Convenience stores	3.17	4.15		
(452110) Department stores (excl. leased □epts.)	1.65	2.10		
(4521101) Conventional department stores (excl. leased □epts.)	1.38	1.71		
(4521102) Discount or mass merchandising department stores (excl. leased □epts.)	1.80	2.22		
(4521103) National chain department stores (excl. leased □epts.)	1.64	2.35		

Source: Nelson, Arthur. 2004. Planner's Estimating Guide. "Projecting Land-Use and Facility Needs", Chicago: Planners Press, American Planning Association, p43. Gross Building Space Occupied Per Employee

Type:	Employees per 1000 sq. ft. GFA				
	Mean – Adjusted Net	Mean – Gross			
Neighborhood	1.67	1.58			
Community	1.57	1.49			
Regional	1.47	1.40			
Super Regional	1.38	1.30			
Subtotal Retail Trade	2.47	2.35			

Figures used to estimate future employment land use needs

Source: CA Department of Energy, 1996 Pacific Gas and Electric Survey

Type:	Employees per 1000 sq. ft. GFA:		
	Mean – Enclosed	Mean – Business	
Grocery	2.38	2.38	
Retail	1.55	1.70	

Using Energy Weights

Codes: Grocery  $\sim 031$ (supermarket); 032 (convenience store); 033 (other); Retail  $\sim 041$ (dept/variety); 042 ( shop in enclosed mall); 043 (other)

**Source:** Puget Sound Regional Council, 1998 Industrial Land Supply and Demand in the Central Puget Sound Region

Type:	Employees per 1000 sq. ft. GFA:
	Mean
Retail	.57

### Source: Institute of Transportation Engineers (ITE), TRIP Generation 6<sup>th</sup> Edition, 1997

Type: (ITE use code)	Employees per 1000 sq. ft. GFA:
	Mean
(820) Commercial / Shopping Center	
25,000 Sq. Ft.	3.33
50,000 Sq. Ft.	3.33
100,000 Sq. Ft.	2.86
200,000 Sq. Ft.	2.50
400,000 Sq. Ft.	2.00

Source: Study by the San Diego Association of Governments, 2001

Type:	Employees per 1000 sq. ft. GFA:
	Mean
Community Shopping Center	1.70
Neighborhood Shopping Center	2.80

Source: Metro Employment Density Study: Portland, Oregon 1999

Type:	Employees per 1000 sq. ft. GFA:	
	Mean	
Retail (General)	1.67	

# **Table II-I-5 Commercial – Eating and Drinking**Employees per 1000 ft<sup>2</sup> of Gross Floor Area

### *Source:* Commercial Buildings Energy Consumption Survey (CBECS), Data for 1990 or Newer Construction

Type:	<b>Employees</b> J	per 1000 sq. ft. GFA:
Food Service - By Region	Mean	Median
Northeast	0.38	0.38
Midwest	1.80	1.86
South	3.06	3.43
West	9.23	9.23
Total	3.77	3.43

#### Source: Institute of Transportation Engineers (ITE), TRIP Generation, 5th Edition, 1991

Type:	Employees per 1000 sq. ft. GFA:	
		Mean
(831) Quality Restaurant		7.46
(832) High Turnover (Sit-Down) Restaurant		9.92

Source: CA Department of Energy, 1996 Pacific Gas and Electric Survey

Type:	Employees per 1000 sq. ft. GFA:		
	Mean - Enclosed	Mean - Business	
Restaurant	4.94	4.89	

Codes: 041(fast food, self service), 022 (table service), 023 (bar, other)

#### Table II-I-6 Industrial – Warehouses

Employees per 1000 ft<sup>2</sup> of Gross Floor Area

#### Source: Commercial Buildings Energy Consumption Survey (CBECS), Data for 1990 or Newer Construction

Type:	Employees per 1000 sq. ft. GFA:		
Non-Refrigerated - By Region	Mean	Median	
Northeast	1.36	1.47	
Midwest	0.38	0.00	
South	0.16	0.00	
West	0.17	0.00	
Total	0.39	0.00	

Refrigerated - By Region	Mean	Median
Northeast	0.86	1.00
Midwest	0.18	0.18
South	1.34	1.55
West	1.19	0.51
Total	1.20	1.25

#### Source: Institute of Transportation Engineers (ITE), TRIP Generation, 5th Edition, 1991

Type:	Employees per 1000 sq. ft. GFA:	
	Mean	
(150)Warehouse	1.28	
(151)Mini-warehouse	0.05	

#### Source: CA Department of Energy, 1996 Pacific Gas and Electric Survey

Type:	Employees per 1000 sq. ft. GFA:	
	Mean - Enclosed	Mean - Business
Non-Refrigerated	0.35	0.51
Refrigerated	0.84	0.89

Using Energy Weights

Codes: 52 (Non-refrigerated. Warehouse), 51 (Refrigerated. Warehouse)

### Source: Institute of Transportation Engineers (ITE), TRIP Generation $6^{\rm th}$ Edition, 1997

Type: (ITE use code)	Employees per 1000 sq. ft. GFA:
	Mean
(150) Warehousing	1.28

### Source: Institute of Transportation Engineers (ITE), Parking Generation 2<sup>nd</sup> Edition, 1987

Type:	Employees per 1000 sq. ft. GFA:	
	Mean	
Warehousing	0.46	

Source: Metro Employment Density Study: Portland, Oregon 1999

Type:	Employees per 1000 sq. ft. GFA:	
	Mean	
Distribution / Warehouse	.59	

Source: Industrial Employment Densities, ARES, 1997

Type:	Employees per 1000 sq. ft. GFA:	
	Mean	
Warehouses	1.58	

### Table II-I-7 Industrial – Industry & Manufacturing

Employees per 1000 ft<sup>2</sup> of Gross Floor Area

#### Source: Institute of Transportation Engineers (ITE), TRIP Generation, 5th Edition, 1991

Type:	Employees per 1000 sq. ft. GFA:	
	Mean	
(110) General Light Industry	2.16	
(120) General Heavy Industry	1.82	
(130) Industrial Park	2.00	
(140) Manufacturing	1.87	

Source: Nelson, Arthur. 2004. Planner's Estimating Guide. "Projecting Land-Use and Facility Needs", Chicago: Planners Press, American Planning Association, p43. Gross Building Space Occupied Per Employee

Type:	Employees per 1000	Employees per 1000 sq. ft. GFA		
	Mean - Adjusted Net	Mean - Gross		
Construction	3.65	3.47		
Manufacturing	1.73	1.64		
TCU	3.80	3.61		
Wholesale Trade	1.51	1.43		
Subtotal Industrial	2.67	2.54		

Figures used to estimate future employment land use needs

#### **Source:** Puget Sound Regional Council, 1998 Industrial Land Supply and Demand in the Central Puget Sound Region

Type:	Employees per 1000 sq. ft. GFA:
	Mean
Construction	1.73
Manufacturing	1.70
Transportation, Communications, and Utilities	1.60

Wholesale Trade	0.89

### Source: Institute of Transportation Engineers (ITE), TRIP Generation $6^{\rm th}$ Edition, 1997

Type: (ITE use code)	Employees per 1000 sq. ft. GFA:
	Mean
(140) Manufacturing	1.82

### Source: Institute of Transportation Engineers (ITE), Parking Generation $2^{nd}$ Edition, 1987

Type:	Employees per 1000 sq. ft. GFA:
	Mean
Light Industrial	1.87
Industrial Park	2.23
Manufacturing	2.42

Source: Study by the San Diego Association of Governments, 2001

Type:	Employees per 1000 sq. ft. GFA:
	Mean
Industrial / R&D Park	3.40

Source: Metro Employment Density Study: Portland, Oregon 1999

Type:	Employees per 1000 sq. ft. GFA:
	Mean
Manufacturing (General)	1.43

Source: Industrial Employment Densities, ARES, 1997

2000 000 1110 110 110 110 110 110 110 11		
Type:	Employees per 1000 sq. ft. GFA:	
	Mean	
Factories	2.61	

#### Table II-I-8 Hospitality and other – Lodging

Employees per 1000 ft<sup>2</sup> of Gross Floor Area

#### Source: Commercial Buildings Energy Consumption Survey (CBECS), Data for 1990 or Newer Construction

Type:	Employees	per 1000 sq. ft. GFA:
Lodging - By Region	Mean	Median
Northeast	0.43	0.43
Midwest	0.38	0.29
South	0.35	0.29
West	0.16	0.00
Total	0.26	0.15

## Source: US Environmental Protection Agency (EPA), Energy Star Hospitality Industry Facts, http://yosemite.epa.gov/Estar/business.nsf/content/ business\_

hospitality\_industryfacts.htm

Type:	Employees per 1000 sq. ft. GFA:
	Mean
Number of Employees / 1000 Sq. Ft.	0.57
Number of Employees / Number of Rooms	0.44

Source: CA Department of Energy, 1996 Pacific Gas and Electric Survey

Type:	Employees per 1	000 sq. ft. GFA:
	Mean - Enclosed	Mean - Business
Hotel	0.79	0.79

Using Energy Weights

Codes: 081 (hotel), 082 (motel), 083 (resort)

Source: Study by the San Diego Association of Governments, 2001

Type:	Employees per 1000 sq. ft. GFA:
	Mean
Hotel (non-resort)	1.10

Source: Metro Employment Density Study: Portland, Oregon 1999

Type:	Ů	Employees per 1000 sq. ft. GFA:
		Mean
Hotel / Motel		0.67

#### Table II-I-9 Hospitality and other – Health

Employees per 1000 ft<sup>2</sup> of Gross Floor Area

#### Source: Commercial Buildings Energy Consumption Survey (CBECS), Data for 1990 or Newer Construction

Type:	Employees per 1000 sq. ft. GFA:		
Inpatient – By Region	Mean	Median	
Northeast	n/a	n/a	
Midwest	1.89	1.32	
South	0.72	0.27	
West	2.22	2.50	
Total	1.53	1.29	

Outpatient – By Region	Mean	Median
Northeast	2.18	1.82
Midwest	2.31	2.40
South	3.58	2.22
West	3.28	3.00
Total	3.41	2.22

Source: Nelson, Arthur. 2004. Planner's Estimating Guide. "Projecting Land-Use and Facility Needs", Chicago: Planners Press, American Planning Association, p 53. Space & Land Consumption Based on the Institute of Transportation Engineers (ITE)

Type:	Employees per 1000 sq. ft. GFA:	
	Mean	
(610) Hospital	3.25	
(620) Nursing Home	2.00	

#### Source: California Department of Energy, 1996 Pacific Gas and Electric Survey

Type:	Employees per 1000 sq. ft. GFA:	
	Mean – Enclosed	Mean - Business
Health	2.99	2.99

#### Source: Puget Sound Regional Council, 1998 Industrial Land Supply and Demand in the Central Puget Sound Region

Type:	Employees per 1000 sq. ft. GFA:
	Mean
Health Services	2.00

### Source: Institute of Transportation Engineers (ITE), TRIP Generation 6<sup>th</sup> Edition, 1997

Type: (ITE use code)	Employees per 1000 sq. ft. GFA:
	Mean
(610) Hospital	3.25

Source: Metro Employment Density Study: Portland, Oregon 1999

Type:	Employees per 1000 sq. ft. GFA:
	Mean
Health Services	2.0 - 2.85

#### Table II-I-10 Hospitality, and Other-- Education – Schools

Employees per 1000 ft<sup>2</sup> of Gross Floor Area

#### Source: Commercial Buildings Energy Consumption Survey (CBECS), Data for 1990 or Newer Construction

Type:		Employees per 1000 sq. ft. GFA:		
Education - By Region		Mean	Median	
Northeast		0.77	0.79	
Midwest		1.03	0.71	
South		0.87	0.71	
West		1.74	2.00	
Total		1.30	1.33	

Source: California Department of Energy, 1996 Pacific Gas and Electric Survey

Type:	<b>0.</b> 7	Employees per 1	000 sq. ft. GFA:
		Mean - Enclosed	Mean - Business
Education		1.19	1.27

Using Energy Weights

Codes: 071 (preschool), 072 (elementary/secondary)

#### Source: Puget Sound Regional Council, 1998 Industrial Land Supply and Demand in the Central Puget Sound Region

Type:	Employees per 1000 sq. ft. GFA:	
	Mean	
Government/Education	3.08	

#### Source: Institute of Transportation Engineers (ITE), TRIP Generation 6<sup>th</sup> Edition, 1997

100.	
Type: (ITE use code)	Employees per 1000 sq. ft. GFA:
	Mean
(520) Elementary Schools	.92

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